User Manual

Ascom d81 DECT Handset

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1 Introduction

This document describes features and settings available for d81 handsets. The handset is a feature-rich handset with color display, telephony, messaging, and Bluetooth. It is a highly robust handset for use in rough and demanding environments.

The handset is suitable for users dependent of being reachable and having a need for mobile voice and messaging features, which makes it ideal for applications where the user needs either one way messaging or to be able to interact with other users. The display enhances and simplifies the use of the handset.

There are four versions of the handset:

- d81 Messenger, with messaging functions
- d81 Protector, with additional alarm functions for personal security
- Two EX classified versions: d81 Messenger EX, and d81 Protector EX

Read the chapter 2 Descriptions on page 5 before using the handset.

For software download and parameter set up, read the Installation and Operation Manual, Portable Device Manager (PDM), Windows Version, TD 92325EN, and Configuration Manual, Ascom d81 DECT Handset, TD 92674EN.

1.1 Target Group

This user guide is aimed at those responsible for managing the administration and distribution of handsets at the customer site, such as a system administrator. It may also be of benefit to those requiring in depth information about the operation and features provided by handset, such as handset users.

1.2 Prerequisite

Before using the handset, the system administrator must register it with the system, see 7.8.3 System on page 70.

1.3 How to Use This Document

1.3.1 System Administrator

The system administrator may need to configure some of the handset functions using the PDM/Device Manager. The following chapters in the handset Configuration Manual provide additional information about configuring these functions.

- 3.3 Turn the Audible Signal On or Off on page 16
- 3.2 Log In or Out of a Shared Phone on page 15
- 3.4 Lock and Unlock the Keypad on page 16
- 4.9.1 Additional In Call Functions on page 28
- 5.3 During a Call on page 31
- 6 Alarm Operation on page 37
- 7.1.4 Push to Talk Group Call on page 43
- 7.1.9 Call Services on page 47
- 7.2 Contacts on page 48
- 9 System Profiles on page 75
- 10 Advanced Functions on page 77

- 11.4 Message Priority and Call Priority on page 79
- 11.11 Send Data with Bluetooth Barcode Reader on page 84
- 13 System Handling on page 86

1.3.2 End User

For end-users, it is recommended to read the following chapters to getting started.

- 2 Descriptions on page 5
- 3 Basic Operation on page 15

See also Quick Reference Guide, Ascom d81 DECT Handset, TD 92667EN. Because of its handy format you can place a print-out next to your handset as a quick reference.

1.4 Abbreviations and Glossary

ALS	Acoustic Location Signal
ATEX/IECEx	ATmosphères EXplosibles Standard/guideline for explosion protection in the industry. IECEx is the same as ATEX for the rest of the world (not EU/EFTA). In this document, *EX* refers to ATEX/IECEx.
ELISE	Embedded LInux SErver: A hardware platform used for Unite modules.
IPDI	International Portable DAM Identity DAM (DECT Authentication Module) See IPEI for more information.
IPEI	International Portable Equipment Identity IPEI/IPDI is needed to enable network subscription of the handset. At delivery of the handset, IPEI and IPDI are the same and either can be used for network subscription. If one handset is replaced with another using the Easy replacement procedure, the IPDI is exchanged and IPEI and IPDI will no longer be the same. If the IPEI and the IPDI differ, the IPDI is used for network subscription.
PBX	Private Branch Exchange: handset system within an enterprise that switches calls between local lines and allows all users to share a certain number of external lines.
PDM	Portable Device Manager: An application, running on a PC, for management of portable devices, charging racks, etc. In this document, PDM refers to PDM Windows Version.
IMS3	Integrated Wireless Messaging and Services: An application running on an ELISE3 server. It enables wireless services to and from handsets and chargers.

1.5 Functions and Accessories

NOTE: Some functions can only be used when they are configured in the handset via PDM/ Device Manager. Additionally, some functions are also system dependent.

Functions	Messenger	Protector	Messenger EX	Protector EX
Enhanced DECT Security	x	x	x	x
Easy Registration	x	x	x	x
Local phonebook	x	x	x	x
Company phonebook	x	x	x	x
Central phonebook	x	x	x	x
Profiles	x	x	x	x
System profiles	x	x	x	x
Handset restrictions	x	x	x	x
Personalized menus	x	x	x	x
Procedure call	x	x	x	x
Loudspeaking function	x	x	x	x
Headset connector	x	x	x	x
Vibrator	x	x	x	x
Microphone On/Off during a Call	x	x	x	x
SMS (Short Message Services)	x	x	x	x
Shared Phone	x	x	x	x
Colored Messaging	x	x	x	x
Interactive Messaging	x	x	x	x
Message Templates	x	x	x	x
Acknowledge	x	x	x	x
Voice Mail	x	x	x	x
2 programmable soft keys	x	x	x	x
9 programmable hot keys	x	x	x	x
Programmable navigation key	x	x	x	x
Push Button Alarm	-	x	-	x
Man-down and No-movement alarm	-	x	-	x
Pull cord alarm	-	x	-	x
Send Alarm with Data	-	x	-	x
Automatic Call after Alarm	-	x	-	x
Send Data with Prefix	-	x	-	x
Acoustic Location Signal (ALS)	-	x	-	x
Location, Base Station	x	x	x	x
DECT location	x	x	x	x
LF location	x	x	x	x

Functions	Messenger	Protector	Messenger EX	Protector EX
Centralized Management	x	x	x	x
Push To Talk (PTT)	x	x	x	x
Downloadable Languages	x	x	x	x
Easy replaceable battery	x	x	x	x
Easy replacement of handset	x	x	x	x
Clear lists in charger	x	x	x	x
Site Survey tool	x	x	x	x
Bluetooth barcode reader support	x	x	x	x
Bluetooth	x	x	x	x
Upgradeable to Protector[1]	x	-	x	-

1.Requires a product license. The d81 Messenger cannot be upgraded to d81 Protector with the No-movement/Man-down hardware.

Accessories	Messenger	Protector	Messenger EX	Protector EX
Basic Charger	x	x	x	x
Advanced Charger	x	x	x	x
Charging rack	x	x	x	x
Battery Pack Charger	x	x	-	-
Leather Casing, including swivel-type clip	x	x	x	x
Spare Clip	x	x	x	x
Swivel-type Clip	x	x	x	x
Cover for no clip	x	x	x	x
Security cord	x	x	x	x
Pull cord	-	x	-	x
Front plates (5 colours)	x	x	-	-
Headset with Microphone on Boom[1]	x	x	-	-
Peltor Hearing Protection Headset	x	x	-	-
Headset adapter for Mic on Boom	x	x	-	-
EX-classified headset adapter for standard Peltor headset	x	x	x	x

1.Requires the headset adapter for Mic on Boom.

2 Descriptions

2.1 d81 DECT Handset

IMPORTANT: The handset may retain small metal objects around the mouthcap or earcap region.

Case

The plastic cover parts are made of durable PC/ABS material.

Antenna

The antenna is integrated inside the handset.

Loudspeaker

The handset has a separate loudspeaker for the loudspeaking function. It is placed on the back side of the handset.

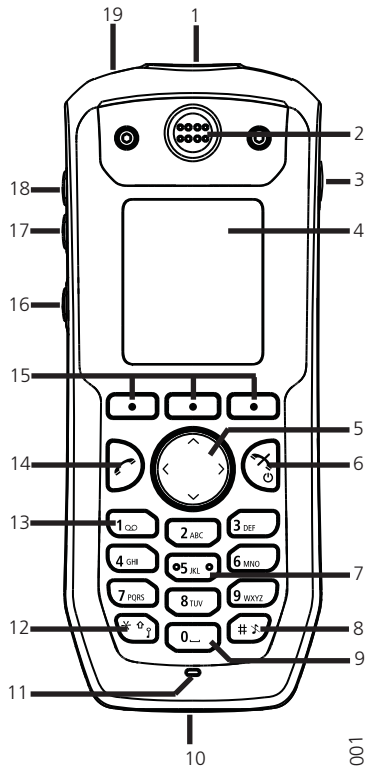
Battery

The battery is a rechargeable Li-Ion battery, placed under a battery cover. See 14.1.4 Replace the Battery on page 88.

The battery is fully charged within four hours. See 14.1.2 Charge the Battery on page 88.

The non-EX classified battery can be charged separately with a battery pack charger. See 14.1.3 Charge Spare Batteries on page 88.

IMPORTANT: When charging the EX classified handset, it is only permitted to use a charger marked with DC3-AxxB (rev. 1A), DC4-AxxB (rev. 3A), CR3-AxxB (rev. 2A), or CR3-AxxC on the label. It is not permitted to charge the EX battery pack alone.



1 Push button[1]
The button is placed on the top side of the handset. The Push button is used for sending alarms, see 6.1 Push-Button Alarm on page 37.

2 Earpiece speaker

3 Pull cord connector[2]
Is used for connection of the pull cord to the handset, see also 6.3 Pull-Cord Alarm on page 38.

4 Colour display
The full graphic type display is 128 pixels wide and 160 pixels high. The display has multiple colours and backlighting.

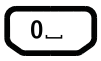
5 Four-way navigation key
Use this key to step in the menu and when working in text mode. ‹, ›, ^, and ˇ are used for stepping left/right and up/down in the menu. The navigation key can be programmed, the ^ is by default a shortcut to the Inbox, and ˇ is a shortcut to Call contact. See also 7.6.3 Define Navigation Key on page 59. During a call the volume can be increased or decreased by pressing ^ and ˇ.

6 On-hook and On/Off key
Combined button; to end a call, to return to idle mode, and to switch the handset on/off by long press.

7 Tactile indicators
There are two tactile indicators to indicate the centre of the key pad

1.Applicable for the d81 Protector only.
2.Applicable for the d81 Protector with the hardware variant Man-down and No-movement only.

8
Sound off key
A long press on the key in idle mode, changes between ring signal on/off, At incoming call, a long press on the key silencing the ring signal.

9 
Space
To add space between text

10 Multi-purpose connector
The connector is used for battery charging, software download, configuration and connection of an IP 65 classified headset connector.

11 Microphone
The microphone is placed on the front bottom side of the handset.

12
Key lock and Upper/Lower case key
This key is to lock the keypad in combination with the soft key "Lock". This key is also for switching between upper/lower case and digits.

13
Voice mail access[1]
A quick access to the handset's Voice mail. See also 11.1 Voice Mail on page 78.

14
Off-hook key
To answer a call, to pre-dial a number, and as a shortcut to the Call list.

15
Soft keys
The three Soft keys are located just beneath the display and the function of each Soft key is indicated by text in the display just above the keys. In idle mode, the middle and right Soft key can be used for specific functions defined by the user of the handset. See 7.6.1 Define Soft Keys on page 58.

16
Mute and PTT button
A long press on the Mute button in idle mode, changes between ring signal on/off. At incoming call, a long press on the Mute button silencing the ring signal.

During a call, a long press on the button changes between microphone on/off.

Note: A muted handset still sounds an alert, a beep, when there is an incoming call.

17
Volume button (down)
To decrease the speaker earpiece, headset, and the loudspeaker volume. The button is placed on the upper left side of the handset.

18
Volume button (up)
To increase the speaker earpiece, headset, and the loudspeaker volume. The button is placed on the upper left side of the handset.

19 LED
Indicates incoming call, messaging, low battery, and charging.

1. This is a system dependent feature.

2.1.1 Hot Keys

The keys "0" and "2" to "9" can be configured as Hot Keys. A long press on any of these numbers in idle mode is, by default, a shortcut to the Call contact list. The list is in alphabetic order and depending on which key is pressed is dependent on where in the list the contact appears.

A Hot Key can be programmed to give access to frequently used functions such as dialling a specific number, a shortcut on the menu, or sending an SMS. See 7.6.2 Define Hot Keys on page 59.

2.1.2 Alphanumeric Keys

NOTE: Depending on the selected menu language and character setting in the IMS3/Unite CM, other characters can be available. This means that the character order can differ from the figure below.

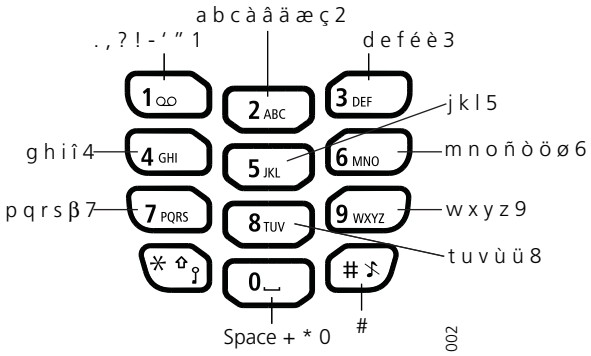


Figure 1. Available Characters.

In Idle Mode, and Number Input Mode

- A short press on a key enter the digits ‘‘0’’ - ‘‘9’’ and the characters * and #.
- Enter a pause in number input mode by a long press on (#). A pause is indicated by a "P" in the display.
- A long press on (*) changes the tone sender on. Tone sender on is indicated by a "T" in the display.

In Text Input Mode

- A short press on a key 0-9, displays the first available character on that specific key. The marked character is selected after a timeout, or when another key is pressed.
- To change to upper or lower case, press (*) before entering the character. The (*) can also be used to display only the digits.
- To add space in the text, make a short press on key 0.
- The first character entered in a message, or when adding or editing a name in the Contacts menu, is an upper level character followed by lower level characters, unless (*) is pressed before entering the character. To switch between "Abc", "ABC", "abc", and "123", press (*). A long press on (#) displays special characters.

2.1.3 Icons and Text in the Display

All functions and settings available to the user are shown as icons and text in the display. The icons and text in the display indicate functions and settings the user has access to. The display normally displays date and time, the Owner ID and handset number. The Owner ID can manually be set by the user.

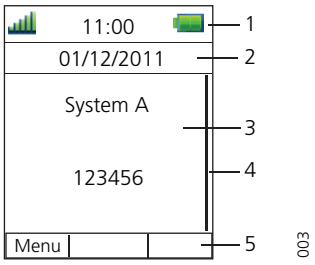


Figure 2. Example of a display configuration in idle mode.

- The Status bar (1) display icons, which provide information about signal strength, missed calls, new messages, the phone and key locks, sound off, and time and battery status. The status bar is always visible.
- The Header bar (2) displays the current date, headset connection, Bluetooth connection, and system connection.
- The Active area (3) displays information such as the name of the system to which the handset is connected to. A user identity provided from the system or an Owner ID can also be displayed if configured in the Settings menu. This is also the area for dialog window text. For example "missed calls" or to confirm an action.
- The Scroll bar (4) may be displayed to the right of the "Active area" when a menu screen has more than six menus or when a message is too long to be displayed in one go.
- The Soft key bar (5) is used for Soft keys which can be used as shortcuts for functions in the handset.

Icons

''Signal strength'' icon is visible in the upper left corner. The staples shown in display depends on the signal strength.

''Full battery'' icon is displayed in upper right corner.

"Low battery warning'' icon is shown when the battery has 10% or less remaining capacity left.

"Empty battery warning" icon is flashing when the battery has 5% or less remaining capacity left.

''Sound off'' icon is displayed when the Sound off key or Mute button is pressed.

The Silent ("Volume 0") icon is displayed when the ring volume is set to Silent.

"Microphone off" icon indicates a silenced microphone. It is displayed after a long press on the Sound off key, Mute button during a call.

During a PTT call, the microphone is silenced when the PTT button is released.

''Loudspeaking'' icon is displayed in the soft key bar during a call. Pressing this icon turns on the loudspeaker.

''Loudspeaking off'' icon is displayed after the soft key for Loudspeaking icon has been pressed. Pressing this icon turns off the loudspeaker.

''New message'' icon or ''Interactive message'' icon indicates that one or more new text messages have been received. The icon remains in the status bar until all new messages in the inbox are read.

"Request for answer" icon in front of a message indicates that this message must to be acknowledge or rejected.

''Voice mail message'' icon is displayed in the status bar when there are voice mails. The icon remains until voice mail has been listened to.

''Voice mail message'' icon is displayed in the inbox when there are voice mails. The icon remains until voice mail has been listened.

''Read message'' icon or ''Read Interactive message'' icon in front of a message shows that this message once has been read.

"Unsent message" icon

"Sent message" icon

"New colored message" icon indicates that a new colored text message(s) has arrived. The messages can be labelled with different colours.

"Read colored message" icon indicates that a colored text message(s) has been read. The messages can be labelled with different colours.

"High prio" icon included with "New message" icon indicates high priority of a message.

"Alarm prio" icon included with "New message" icon indicates alarm priority of a message.

''Key lock'' icon indicates a locked keypad.

"Locked entry" icon indicates that the contact can not be edited or deleted by the user.

"Phone lock" icon indicates a locked handset.

''Bluetooth'' icon indicates that Bluetooth is enabled.

"Bluetooth barcode reader" icon indicates that a Bluetooth barcode reader is connected to the handset.

"Bluetooth headset" icon indicates that a Bluetooth headset is connected to the handset.

"Headset" icon indicates that a corded headset is connected to the handset.

"Outgoing call" icon is added to all outgoing calls in the call list.

"Incoming call" icon is added to all answered calls in the call list.

"Push to talk" icon is added to all incoming, outgoing, missed and answered PTT calls in the call list/missed calls.

"Missed call" icon is added to all missed calls in the call list.

"Missed call" icon indicates missed calls in the status bar.

"PDM/Device Manager communication" icon is visible when handset is communicating with PDM/Device Manager via advanced charger.

"Pull-cord" icon indicates that the Pull-cord alarm is enabled.

"Man-down" icon indicates that the Man-down alarm is enabled.

"No-movement" icon indicates that the No-movement alarm is enabled.

"Profile active" icon

"Messenger" icon indicates that the handset has a d81 Messenger product license.

"Protector" icon indicates that the handset has a d81 Protector product license.

Menu Icons

The "Contacts'' menu contains all names/numbers in the local phonebook. In addition, a company phonebook with up to 1000 entries can be downloaded to the phone via the PDM/Device Manager. A central phonebook[1] can also be accessed from the "Contact" menu.

The "Services" menu can be used to create shortcuts the functions Phone call, Send data, and Send message.

The ''Messaging'' menu contains all message handling such as reading and writing messages.

The ''Calls'' menu contains call lists, call time, and call services. Call services is configured in the PDM/Device Manager.

The ''Connections'' menu contains Bluetooth connection, headset selection, System selection, and In charger selection.

The ''Settings'' menu contains personal handset settings such as changing the ring volume, selecting language, etc.

The ''shortcuts" menu contains shortcuts for the Soft keys, Hot keys, and Navigation keys.

The "Profiles" menu allows up to four different profiles to be added. The "Normal" profile is active by default.

1. This is a system dependent feature.

2.2 Accessories

2.2.1 Desktop Chargers

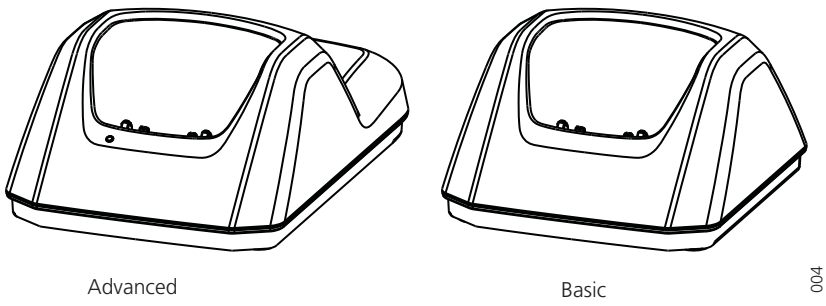


Figure 3. Desktop Chargers for the Handset

There are two desktop chargers available; one basic (DC3) that only charges the handset, and one with advanced functionality (DC4) to download new software and to synchronize parameters. The handset is fully operational while placed in the charger.

The charger is delivered with a plug-in power supply and is connected into an ordinary wall socket. For more information, see the advanced charger's Installation and Operation Manual.

IMPORTANT: When charging the EX classified handset, it is only permitted to use a charger marked with DC3-xxxB/rev. 1A (or higher rev.), DC4-xxxB/rev. 3A (or higher rev.) on the label.

NOTE: Only use the charger within the temperature range of +5° C – +40° C.

2.2.2 Charging Rack

There are two charging racks (CR3):

- one used for charging several handsets, to synchronize parameters, and for software download
- one used for charging several handsets only

IMPORTANT: If using the CR3 for charging EX classified handsets, it is only permitted to use a charging rack marked with CR3-AxxB (rev. 2A) or CR3-AxxC on the label.

The built in power supply can charge up to six handsets.

See the Charging Rack's Installation and Operation Manual.

2.2.3 Battery Pack Charger

The Battery Pack Charger (CR4) is used for charging up to six spare batteries.

IMPORTANT: It is not permitted to charge EX classified batteries using the battery pack charger.

See the battery pack charger's Installation Guide.

2.2.4 Clips

Tip: The handset can be used without a clip, see 14.5 Attach Cover for No Clip on page 93. The belt clips cannot be used if the handset is placed in a case. See 2.2.7 Leather Casing on page 14 for more information.

There are two belt clips available:

- Hinge-type clip
  To prevent the handset from slipping out of for example pocket or belt, see 14.3 Attach the Hinge-type Clip on page 92.
- Swivel-type clip
  To be able to rotate without slipping out from for example pocket or belt, see 14.4 Attach the Swivel-type Clip on page 92.

2.2.5 Security Cord

The security cord is 800 mm long. The security cord is attached directly to the handset.

2.2.6 Pull Cord

The pull cord is 800 mm long. The pull cord is attached directly to the handset's pull cord connector on the upper right side.

2.2.7 Leather Casing

The leather casing is especially designed for the handset. The casing comes with a swivel type belt clip and the handset is fully operational while placed in the casing.

2.2.8 Headset

A headset is recommended if the handset is frequently used and/or if the user wants to have both hands free. The headset comes in two versions; *Microphone on a boom* and *Hearing protection*.

IMPORTANT: The headset *Microphone on a boom* is not available as accessory for the EX classified handset. If used, it is NOT permitted to use the headset in hazardous area.

To achieve optimal audio quality with the different headset types it is recommended to select the corresponding headset profile. See 7.8.2 Headset on page 69 for more information.

NOTE: When Bluetooth is disabled and having an active call in loudspeaker mode on an EX classified handset, the audio will not be transferred to the Peltor hearing protection headset when connecting it.

3 Basic Operation

Tip: For information on how to answering/ending a call, see 5.1 Incoming Call on page 29.

3.1 Switch the Handset On/Off

Switch on the Handset

Press and hold until the handset vibrates and the display lights up.

Switch off the Handset

Prerequisite: The handset is in idle mode.

Tip: While in a menu, press to return to idle mode. If the handset is a shared phone, it must first be logged out to be able to switch off the handset. See 3.2 Log In or Out of a Shared Phone.

1 Press and hold .

2 A *Switch off?* dialog window is displayed. Confirm by pressing "Yes".

NOTE: When putting a switched off handset in a charging rack, the Owner ID of the handset is still be shown. This simplifies the identification of the handset when for example charging the it together with other handsets. If a handset restriction is enabled, it might not be possible to switch off the handset. See the handset's Configuration Manual.

3.2 Log In or Out of a Shared Phone

Note: This feature is license dependent and is applicable in IP-DECT systems only. See Configuration Manual, Ascom d81 DECT Handset, TD 92674EN.

The feature shared phone allows more than one user to use a handset. When a handset is configured to be a shared phone, it can be used by any shared phone user in the system. The message and call lists are deleted when a user logs off a handset.

If the handset is configured in the PDM/Device Manager, an emergency call can be made from a handset that is logged off. See the handset's Configuration Manual.

Log on a Handset

Prerequisite, the handset is switched on. See 3.1 Switch the Handset On/Off for more information.

1 A *Login?* dialog window appears. Press "Yes".

2 Enter User ID and password.

3 Press "Login".

NOTE: If a phone is shared and one of the users logs off the shared phone, the lock that prevents the handset from unauthorized use is deactivated. For additional information, see 3.5 Lock and Unlock the Handset on page 17

Log off a Handset

1 Press and hold .

2 A *Logout?* dialog window appears. Press "Yes".

3.3 Turn the Audible Signal On or Off

Prerequisite: The handset is in idle mode:

Tip: While in a menu, press to return to idle mode.

A long press on , or , changes between ring signal on/off.
The icon indicates a silenced handset.

NOTE: If handset restrictions are enabled, you might not be able to turn the audible signal off. See the handset's Configuration Manual.

3.4 Lock and Unlock the Keypad

3.4.1 Lock and Unlock the Keypad in Idle Mode

To prevent accidentally pressing keys and making a call, the keys can be locked.

Lock Keypad

1 Press .

2 Press "Lock".

Unlock Keypad

1 Press .

2 Press "Yes".

NOTE: A call can be answered or ended while the keypad is locked. If the handset is configured via the PDM/Device Manager. Predefined numbers can also be called while the keypad is locked. See handset's Configuration Manual.

3.4.2 Lock and Unlock the Keypad during a Call

To prevent accidentally pressing keys, the keys can be locked during a call. This can be useful when a headset is used and the handset is attached to a pocket or belt.

Lock keypad

1 Long press .

2 Press "Lock".

Unlock keypad

1 Press .

2 Press "Yes".

TIP: The volume and mute button can be used during the call. For the d81 Protector, the alarm button can also be used.

3.5 Lock and Unlock the Handset

The handset can be protected for unauthorized use. If this function is activated, a PIN code has to be entered, for example, to switch on the handset, to answer an incoming call etc. The default phone lock code (0000) can be changed to any 4 - 8 digit personalized code.

NOTE: If a phone is shared and one of the users logs off the shared phone, the lock that prevents the handset from unauthorized use is deactivated. For additional information, see 3.2 Log In or Out of a Shared Phone on page 15.

NOTE: The handset can be configured with predefined emergency numbers that can be called while the handset is locked. See the handset's Configuration Manual. For the d81 Protector, the Alarm button can also be used.

1 Press "Menu".

2 Select .

3 Select ''Locks''.

4 Select "Phone lock"

5 Select ''Auto phone lock''.

6 Select ''On'', "On in charger", or "Off".

7 Enter PIN code. If the PIN code is forgotten it can be removed by the system administrator.

8 Press "OK".

3.6 Mute Handset on Incoming Call or Message

The handset can be muted temporarily on an incoming call or message. The call is not hung up when the ringtone is muted. If the call is unanswered, it reverts to voicemail if the handset has been configured for voicemail. To mute an incoming call or message, press or while the handset sounds.

4 Menu Tree

4.1 Calls

Call list	>	1234 12:00	>	Call				
		1235 14:00		More	>	Time of Call		
		etc.				Edit number		
						Save number	>	Work number
								Mobile number
								Other number
						Send message	>	
						Delete	>	Yes
								No
						Delete all	>	Yes
				Back				No
Missed calls	>	2345 15:00	>	Call				
		2346 23 Sep 03		More	>	(same as above)		
		etc.		Back				
Call time	>	Total time 03:15:00 Last call 00:30:00						
PTT Groups[1]	>	PTT Group 1 (example)	>	Call	>			
				Back				
Call services	>	Absence[1]	>	Deactivate				
				Lunch				
				Meeting				
				Trip				
				Vacation				
				Out				
				Absence 1				
				Absence 2				
				Absence 3				
				Absence 4				
		Divert calls[1]	>	Internal	>	Activate		
						Deactivate		
				External	>	(same as Internal)		
				No reply	>	(same as Internal)		
				When busy	>	(same as Internal)		

1.Visible if defined in PDM/Device Manager

4.2 Contacts

Call contact	>	Search				
		From contact list	>			
Add contact	>	New	>	Name		
				Work number		
				Mobile number		
				Other number		
				Ring signal	>	
		From Call list	>			
Edit contact	>	Search				
		From contact list	>	Name		
				Work number		
				Mobile number		
				Other number		
				Ring signal	>	
Delete contact	>	Search				
		From contact list	>			
Central phonebook[1]	>	Search by name	>	Call		
				More	>	View contact
						Add to contacts
						Send message
		Search by number	>	More	>	(same as above)
		Last result	>	Call		
				More	>	(same as above)

1. This is a system dependent feature.

TIP: When adding or editing a number in a contact, a variable or character *U* can be added in the *Work/Mobile/Other* number field. This allows the user to enter additional numerical characters before calling the number. See 8 Procedure Call on page 74 for more information.

4.3 Profiles .

Normal (default)						
Meeting[1] (example)	>	Volume	>			
		Ring signal	>	Internal call	>	Play
						Back
				External call	>	(same as above)
				Call back	>	(same as above)
				PTT	>	(same as above)
		Message alert	>	Play		
				Back		
		Vibrating alert	>	On		
				On if silent		
				Off		
		Key sound	>	Click		
				Tone		
				Silent		
		Answering behaviour	>	Automatically		
				Loudspeaking		
Add new	>					

1.The example profile does not contain all applicable settings.

4.4 Messaging

Inbox	>	Message list	>	View	>	Reply	>	Enter text				
						More	>	Delete				
								Forward				
								Call sender				
								Call no. in text[1]	>	Call		
								Save number				
				More	>	Delete	>	Yes				
								No				
						Delete all	>	Yes				
								No				
				Back								
Write new message	>	Enter text	>	Send	>	Enter number	>	Send				
						"Contacts access"	>	Send				
				Clear								
				Back								
Unsent	>	Message list	>	Edit	>	Enter number	>	Send				
						"Contacts access"	>	Send				
				Clear								
				More	>	Delete	>	Yes				
								No				
						Delete all	>	Yes				
								No				
				Back								
Sent	>	Message list	>	View	>	Forward	>	Send	>	Enter number	>	Send
										"Contacts access"	>	Send
								Clear				
						More	>	Delete	>	Yes		
										No		
								Call no. in text[1]	>	Call		
								Save number	>			
						Close						
				More	>	Delete	>	Yes				
								No				
						Delete all	>	Yes				
								No				
				Back								

1.Visible if the number consists of minimum 3 digits.

4.5 Services

Add new	>	Enter name	>	Phone call	>	Phone number	>	Enter number	>	Save		
								"Contacts access"	>	Save		
								Back				
				Send data	>	Enter prefix	>	Save	>	Enter number	>	Save
								Clear				"Contacts access"
								Back				Back
				Send message	>	Phone number	>	Enter number	>	Save		
								"Contacts access"	>	Save		
								Back				
Service 1 (example)	>	More	>	Edit								
				Delete	>	Yes						
						No						

TIP: When configuring the *Phone call* function, a variable or character *U* can be added to the *Enter number* field. This allows the user to enter additional numerical characters before calling the number. See 8 Procedure Call on page 74 for more information.

4.6 Shortcuts

Soft Keys	>	Middle	>	Name				
				Function	>	Not used		
						Phone call	>	Enter number
						Phone call	>	Enter number
						Phone call PTT	>	Enter number
						Call list		
						Contact list		
						Central phonebook[1]		
						Message inbox		
						Send message	>	Enter number
						Change profile	>	Profile A (example)
						Open a menu	>	Main menu
								Calls
								Connections
								Contacts
								Messaging
								Services
								Profiles
								Settings
								Absence[2]
								Call services
								Activate alarm[3]
						Call absence	>	
						Services	>	
						Edit alarm data		
				Value	>			
				Control question	>	On		
						Off		
		Right	>	(same as Middle key)				
Hot Keys	>	0, 2 - 9	>	Function	>	(same as above)		
				Value	>			
				Control question	>	On		
						Off		
Navigation Keys	>	Up	>	Function	>	(same as above)		
				Value	>			

				Control question	>	On		
						Off		
		Down	>	(same as Up key)				
		Left	>	(same as Up key)				
		Right	>	(same as Up key)				

1.This is a system dependent feature.
2. Visible if defined in handset via PDM/Device Manager.
3.Applicable for d81 Protector only.

TIP: When configuring the *Phone call* function, a variable or character *U* can be added to the *Enter number* field. This allows the user to enter additional numerical characters before calling the number. See 8 Procedure Call on page 74 for more information.

4.7 Connections

Bluetooth	>	Enable/Disable										
		Headset	>	Add new	>							
		Barcode reader[2]	>	Add new	>							
Headset	>	Mic on boom										
		Hearing protection										
System	>	Change system	>	Automatically								
				System A (example)								
		Subscribe	>	Enter System name	>	Select system	>	PARK /AC	>	Protection on?	>	Yes
		Unsubscribe[1]	>	Select system	>	Yes						No
						No						
		Rename system	>	Select system	>	Edit	>	Save				
								Clear				
								Back				
						Back						
		Priority	>	Select system	>	Up						
						Down						
						Back						
In charger	>	Call behavior	>	No action								
				Loudspeaking								
				End call								
		Other actions	>	No action								
				Change profile	>	Profile A (example)						
				Switch off								
				Sound off								
				Logout[2]								
				Message absence								

1.It is not possible to unsubscribe a protected system via the System menu. Unsubscribtion of the system must be made via the Admin menu or the DECT system.
2.This is a license dependent feature.

4.8 Settings

Sound & Alerts	>	Volume	>			
		Ring signals	>	Internal call	>	
				External call	>	
				Callback	>	
				PTT		
		Message alert	>			

		Vibrator alert	>	On		
				On if silent		
				Off		
		Key sound	>	Click		
				Tone		
				Silent		
Locks	>	Automatic key lock	>	On		
				On except calls		
				Off		
		Phone lock	>	Auto phone lock	>	On
						On in charger
						Off
				Change PIN code	>	
Display	>	Screen saver	>	Information		
				Black		
		Brightness	>	Normal		
				Power save		
		Contrast	>			
Time & Date	>	Time format	>	12:00(am/pm)		
				12:00		
		Date format	>	dd mmm yy		
				mmm dd yyyy		
				yyyy-mm-dd		
				mm/dd/yyyy		
				dd/mm/yyyy		
				dd-mm-yyyy		
				dd.mm.yyyy		
Answering	>	Answering key	>	Hook-off		
				Any key		
		Answering behaviour	>	Automatically		
				Loudspeaking		
Messages	>	Text size	>	Normal		
				Large		
Language	>	Danish, English etc.				
Owner ID	>					
Alarm[1]	>	Activate alarm	>	Pull-cord		
				Man-down		
				No-movement		
		Edit alarm data				

1.Only visible for d81 Protector with Man-down/No-movement (factory option).

4.9 In Call Menu

The In Call menu displays a list of functions that can be accessed during a call. To see the available functions, press the "More" soft key. Some functions are always provided and others may be made available by the administrator via the PDM/Device manager. To use a function, navigate the In Call menu to highlight the required function and then press the "Select" soft key.

The *In call* function can be used in combination with the *Procedure call* function. See chapter 8 Procedure Call on page 74.

Note: When calling from a locked handset, there are limitations to what items in the In Call menu are shown. However, the entire menu is accessible when calling from a handset with locked. .

NOTE: If the handset is configured via PDM/Device Manager, one of the predefined emergency numbers can be called while the handset or keypad is locked. If calling from a locked handset, only the *Microphone on/off* function in the *In Call* menu can be accessed. However, the entire *In call* menu is accessible when calling from a handset with locked keypad.

Contacts	>	
Messaging	>	Inbox
		Write new message
		Unsent
		Sent
Microphone on/off	>	
Audio transfer	>	
New call	>	Call
		"Phonebook access"
		Cancel
Switch	>	
End call	>	
Transfer	>	
Transfer to new call	>	Call
		"Phonebook access"
		Cancel
Conference	>	
Call back	>	
Call waiting	>	
DTMF		
DECT info	>	Link
		System
Location info	>	DECT Location info
		LF Location info
		All Location info
General purpose 1 -10	>	

NOTE: Some options are only visible if the handsets support them or if they are configured in the handset via PDM/Device Manager.

4.9.1 Additional In Call Functions

Besides the default *In Call* functions, it is possible to define 10 extra system specific codes/ general purposes. See the handset's Configuration Manual.

4.10 Customizing the Menu Tree

The menu tree can be customized by hiding some of the functions that are available but for example not in use. Which functions that can be hidden are defined in the PDM/Device Manager. See the handset's Configuration Manual.

5 Calling

5.1 Incoming Call

The flashing LED, accompanied by a ring signal and/or a vibrating handset, gives a notice of a call. Ring signal and vibrator can be disabled, see 7.7.1 Sound and Alert Settings on page 60.

The calling party's handset number or name is shown. The name is shown if the calling party's handset number is stored in the local phonebook.

5.1.1 Answer a Call

When the signal sounds press or the "Accept" soft key to answer the call. The call can be answered in loudspeaking mode by pressing the soft key. The name or number of the calling party is displayed if calling line information is available.

TIP: When a headset is connected to the handset, the headset button can be used to answer the call. In addition, it is possible to configure the headset button with a specific function, such as hook off, dial last called number, or dial a predefined number. See the handset's Configuration Manual.

A call may also be answered in the following ways:

- *Automatically* and *Loudspeaking*: When *Automatically* is enabled, all incoming calls are connected automatically. See 7.7 Settings on page 60.
- With a predefined message. This lets the use decline the call, but still acknowledge its receipt, by sending a predefined text message to the caller. See 11.9.2 Answering a Text Message with a Predefined Message on page 83.

5.1.2 End a Call

A press on ends the call. The duration of the call is shown in the display. The total time of the call can also be retrieved from the Calls menu > Call time.

A call can also be ended by putting the handset in a charger. Note that all ongoing calls are disconnected. See 7.8.4 In Charger Action when in Call on page 72.

NOTE: Some systems/PBXs require that the handset sends a DTMF to end a call. See the handset's Configuration Manual for more information.

5.2 Outgoing Call

5.2.1 Pre-Dial

Enter the number and press to get the line. The number is shown on the display while dialling. If needed, press "Clear" to erase the number. By using the navigation key it is possible to step and add or delete a digit in a number.

The tone sender in a pre-dialed number can be turned on by long pressing .

An international number can be dialled from the handset by entering a + character followed by the country code and local number. To enter the + character, long press the 0 key until the character is shown in the display.

NOTE: The + character cannot be entered and international numbers cannot de dialled in the following circumstances:

- If the 0 key has been configured as a hot key.
- If the handset has been set up to perform advanced functions normally used by a system administrator, as described in 10.1 Admin Menu on page 77.

5.2.2 Post-Dial with Headset Button

To make a call when a headset is used, press the button[2] to get the ring tone and then dial the number.

5.2.3 Dial Using a Pre-programmed Navigation Key, Hot Key, Soft key, or Headset Button

A Navigation key, Hot key, Soft key, or a headset button[1] can be programmed with a number. Press the pre-programmed key/button to dial the number. The call is automatically connected.

5.2.4 Dial a Number from the Call list

Tip: A number can be dialed from the Call list by pressing , selecting a number from the list and pressing "Call" or .

1 Open the menu by pressing the "Menu" soft key.
2 Select .
3 Select "Call list".
4 Select a number.
5 Press or the soft key "Call" to dial. The number can be edited before the call is dialed. Press "More" and select "Edit number". The 25 last received, dialed or missed calls are stored in a call list. See 7.1 Calls on page 41.

5.2.5 Dial Last Called Number with Headset Button

If a headset is used, the headset button can be pressed to dial the last called number. This requires that the headset button is configured via the PDM/Device Manager.

5.2.6 Dial the Sender of a Message

It is possible to call the sender of a message stored in the message list.

1 Open the menu by pressing the "Menu" soft key.
2 Select .
3 Select "Inbox".
4 Select message in the message list.
5 Press "View".
6 Press "More".
7 Select "Call sender".

5.2.7 Dial a Number from the Local Phonebook

1 Open the menu by pressing the "Menu" soft key.
2 Select .

1.The headset button must be configured in the handset via PDM/Device Manager.

3 Select "Call contact".

4 Select contact from list, or search name/number by entering characters and select search.

5 Press "Call" or to make the call.

5.2.8 Dial a Number from the Company Phonebook

1 Open the menu by pressing the "Menu" soft key.

2 Select .

3 Select "Call contact".

The local and company phonebook appears in the same list, but the company names are indicated by a icon in front of the name. Select the contact from list, or search for the name or number by entering characters and selecting search.

4 Press the soft key "Call" or to make the call.

5.2.9 Dial a Name from the Central Phonebook

1 Open the menu by pressing the "Menu" soft key.

2 Select .

3 Select "Central phonebook".

4 Select "Search by name".

5 Enter the first name, last name, or both.

Note: Incomplete names may be entered and searched. Names that include spaces may be also be searched.

6 Press ‘‘Search’’.

7 Press "Call", or to make the call.

5.3 During a Call

Note: Some of these functions are system dependent. The parameters are set up in the PDM/Device Manager, see the handset’s Configuration Manual, and Installation and Operational Manual for PDM/Device Manager.

If the handset is configured via PDM/Device Manager, one of the predefined emergency numbers can be called while the handset or keypad is locked. When calling from a locked handset, only the *Microphone on/off* function can be accessed by pressing the soft key "More". However, the entire *In Call* menu is accessible when calling from a handset with locked keypad.

5.3.1 Adjust the Volume during a Call

Press to increase the volume, and to decrease the volume. The handset stores and preserves the new volume level. The ^ and v on the navigation key can also be used to adjust the volume.

5.3.2 Open Contacts during a Call

1 Press "More" during the call.

2 Select "Contacts".

3 Select "Call contact" for searching a local or company phonebook contact, or select "Central phonebook" for searching a central phonebook contact.

4 Select or search contact.

The selected contact can be called by pressing "Call" or . When calling the contact, the first call is put on hold. See also 5.3.6 Start a New Call during Conversation on page 33.

5.3.3 Open Messaging during a Call

The Messaging menu can be accessed during an ongoing call by pressing the soft key "More".

1 Press the soft key "More" during the call.

2 Select "Messaging".

See 7.4 Messaging on page 53 for more information about messaging.

5.3.4 Turn the Microphone on or off during a Call

1 Press "More" during the call.

2 Select "Microphone off".

3 Press "Select".

The icon indicates a silenced microphone. This means that the other part in an ongoing call cannot hear you. To turn the microphone back on, do as follows:

1 Press "More" during the call

2 Select "Microphone on".

3 Press "Select".

The microphone can be turned on and off by long pressing or .

When long pressing or pressing , a short peep is also heard indicating that the microphone is turned on or off. When pressing in a PTT group call, no beep is heard.

5.3.5 Audio Transfer

To transfer audio between the Bluetooth headset and the handset's earpiece, do as follows:

1 Press "More" during the call.

2 Select "Audio transfer"[2].

3 Press "Select".

5.3.6 Start a New Call during Conversation

1 Press "More" during the call.

2 Select "New Call".

3 Press "Select".

4 Enter the number and press , or "Call".

5.3.7 Call Back

When a call is made to a busy handset, an automatically call back can be made when the busy handset is free. When a busy tone sounds, do as follows:

1 Press "More".

2 Select "Call back"

3 Press "Select".

4 Press and wait until the handset alerts.

5 When the handset alerts, press and the call automatically starts.

5.3.8 End a Call

Prerequisite, a new call has been started during conversation, see 5.3.6 Start a New Call during Conversation on page 33.

1 Press "More" during the call.

2 Select "End Call".

3 Press "Select". This ends the current call and the previous call is resumed.

5.3.9 Transfer a Call

Prerequisite, a new call has been started during conversation, see 5.3.6 Start a New Call during Conversation on page 33.

When a caller has two ongoing calls, he/she can transfer the first call to the second call.

1 Press "More" during the call.

2 Select "Transfer".

3 Press "Select" to transfer the current call to the other call.

5.3.10 Transfer to New Call

An ongoing call can be transfered to a new number. When the new call is established, the caller that initiated the transfer is disconnected.

1 Press "More" during the call.

2.Visible if Bluetooth connection is active.

2 Select "Transfer to new call"[3].

3 Press "Select".

4 Enter the number of the party the ongoing call is to be transfered to.

5 Press to transfer the call.

5.3.11 Conference Call

Prerequisite, a new call has been started during conversation, see 5.3.6 Start a New Call during Conversation on page 33.

By initiate a conference call, an conversation can be made between several participants simultaneously.

1 Press "More" during the call.

2 Select "Conference call".

3 Press "Select".

The person initiating the conference call is the conference leader, and the other are participant members of the conference call.

5.3.12 Send Call Waiting

This feature can be used when you want to announce a person that you are trying to reach him/her by sending a notification tone to his/her handset. When the person is engaged in a call, do as follows:

1 Press "More".

2 Select "Call waiting".

3 Press "Select". The other party hears two short beeps to inform that you want to reach him/her.

When the line is free, the call on hold is redialed automatically. This is a system dependent feature.

TIP: It is possible to switch between the calls. See 5.3.13 Switch between Calls on page 34.

5.3.13 Switch between Calls

Prerequisite, a new call has been started during conversation, see 5.3.6 Start a New Call during Conversation on page 33.

1 Press "More" during the call.

2 Select "Switch".

3 Press "Select" to switch to the other call. The first call is on hold.

If needed, repeat the steps above to switch between the calls.

5.3.14 Answer Call Waiting

NOTE: Depending on system setup and configuration, this feature might be handled in one of two different ways:

3.Only visible when the parameters "New call" and "Transfer" are defined in the PDM/Device Manager.

Method 1

During an ongoing conversation and a short tone for another incoming call appears, do as follows:

1 Press the soft key "More" during the call.

2 Select "Answer Call waiting".

3 Press "Select". The new call is now connected, and the first call is on hold.

When the line is free, the call on hold is automatically dialled again. This is a system dependent feature.

Method 2

If a second caller calls during a phone call, the handset beeps and displays the text "Internal call" for internal callers and "External call" for external callers. The handset also shows the name or phone number of the second caller. To answer the second caller:

1 Press the soft key "Accept".

The text "Switch" briefly appears on screen, and the handset transfers to the second call. The first call is put on hold.

2 When finished speaking with the first caller, select the "More" soft key.

3 Select "End Call".

4 The second call is closed and the first call is retrieved.

NOTE: It is possible to reject a second call by pressing the "Decline" soft key. The second caller hears a busy tone, and the call is logged as a missed call in the handset.

5.3.15 DTMF

Some systems or PBXs require that the handset sends Dual Tone Multi Frequency (DTMF) when pressing the keys. DTMF can be enabled as follows:

1 Press the soft key "More" during the call.

2 Select "DTMF".

3 Press "Select" to enable the use of DTMF.

TIP: It is also possible configure the handset to send DTMF when pressing and pressing/releasing . See the handset's Configuration Manual.

5.3.16 DECT Info

This submenu is only visible if the Admin menu is activated. See handset's Configuration Manual.

5.4 Loudspeaking Function

There are several options to activate the loudspeaking function:

- Press a Navigation key, Hot key or Soft key defined as a shortcut to a "Phone call" function. When pressing the key, a predefined number is called, see 7.6 Shortcuts on page 58.
- When receiving a call, press the soft key 5.
- During a call, press the soft key 4.

- During a call, put the handset in a charger. Requires that the parameter *Call behaviour* is set to "Put on Loudspeaker" in PDM/Device Manager. See the handset's Configuration Manual.
- This function can also be activated by selecting another answering method, that is, "Automatically" and/or "Loudspeaking". See 7.7.6 Answering on page 65.

5.5 Call Diversion

Internal calls, external calls, calls when busy, or calls at no answer can be diverted to another telephone number.

The diversion is made via the Calls menu > Call services > Divert calls. See 7.1.9 Call Services on page 47.

It is also possible to create a shortcut to the ''Call Services'' function or activate a call service when a profile is activated. See the handset's Configuration Manual for information.

NOTE: PBX settings for the call diversion must be set to show the *Divert calls* menu in the handset. See the handset's Configuration Manual.

5.6 Declining a Call with a Predefined Message

A call may be declined with a predefined message by the called party provided that both parties are connected via an IP-DECT system. To decline a call with a predefined message when the handset rings, perform the following steps:

1 In response to the "Reply with a message template?" prompt, press the "Yes" soft key to send a message to the caller. A list of predefined messages is displayed in the "Templates" menu.

2 Select, and if required, edit the message as described in 11.9.1 The Templates Menu on page 83.

3 Click the soft key "Send". The calling party number is displayed in the handset display.

4 Click the soft key "Send". A "Message sent" confirmation is displayed and the message is sent to the caller.

5.7 Emergency Calls

If configured in the PDM/Device Manager, any one of up to five emergency numbers can be called. An emergency number can be called even if the handset or keypad has been locked. For additional information, see sections 7.7.2 Keypad Lock Settings on page 61 and 7.7.3 Phone Lock Settings on page 62.

4.The left Soft key might have another/no function depending on its configuration of the In call function in PDM/Device Manager.

6 Alarm Operation

The parameters described in this chapter are set in the PDM/Device Manager. See the handset's Configuration Manual.

NOTE: The alarm functionality is applicable for the d81 Protector only. In addition, some functions are not available when upgrading the product license from d81 Messenger to d81 Protector, or require a functionality license. See the following chapters for more information.

If a shared phone is used, it must be logged in to the system to be able to send alarm. See 3.2 Log In or Out of a Shared Phone on page 15.

6.1 Push-Button Alarm

The push-button can be defined to send an alarm by a long press and by multiple press. By default, long press is defined for test alarm (see 6.1.1 Test Alarm), and multiple press is defined for personal alarm (see 6.1.2 Personal Alarm).

6.1.1 Test Alarm

Press and hold the push-button until a dialog window "Test Alarm" (default) is displayed. Depending on set parameters;

- a beep is heard
- the orange LED flashes twice
- the vibrator stirs
- the handset receives a notification that the alarm has been received by the system. This is a system dependent feature.
- if configured, the ALS (see 6.5 Acoustic Location Signal on page 39) is activated after the alarm has been sent, or a call is established to a predefined number (see 6.6 Automatic Call after Alarm on page 39)

  NOTE: If the parameter "Silent alarm" is set, no ALS is triggered and no indication of an alarm has been sent by the handset or received by the system is shown.
- information about the handset's location is sent along with the alarm, see 6.4 Alarm with Location Information on page 39.

6.1.2 Personal Alarm

Press the push-button twice or more, the dialog window "Personal Alarm" (default) is displayed. Depending on set parameters;

- a beep is heard
- the orange LED flashes twice
- the vibrator stirs
- the handset receives a notification that the alarm has been received by the system. This is a system dependent feature.
- if configured, the ALS (see 6.5 Acoustic Location Signal on page 39) is activated after the alarm has been sent, or a call is established to a predefined number (see 6.6 Automatic Call after Alarm on page 39).

  NOTE: If the parameter "Silent alarm" is set, no ALS is triggered and no indication of an alarm has been sent by the handset/received by the system is shown.
- information about the handset's location is sent along with an alarm, see 6.4 Alarm with Location Information on page 39.

6.2 Man-Down and No-Movement Alarm

NOTE: Man-down and No-movement are not available when upgrading the product license from d81 Messenger to d81 Protector. That is, only applicable for d81 Protector with the No-movement/Man-down hardware variant.

Man-down alarm: If the handset is tilted 45 degrees (default) or more for a preset time (default 7 seconds), the Man-down alarm is triggered. The accuracy of the tilt is + or - 10 degrees.

No-movement alarm: If no movement is detected during a preset time (default 30 seconds), the No-movement alarm is triggered.

When an alarm is triggered, the following occurs;

- A *Man-down warning. Cancel?* or *No- movement warning. Cancel?* dialog window is shown in the display, and a warning tone is also signalling during a period (default 7 seconds) before the alarm is sent.
- To prevent the alarm from being sent and silencing the warning tone, do one of the following:
  - Press any key/button. The alarm is reset.
  - Put the handset in a charger. The alarm is temporarily disabled indicated by that the corresponding alarm icon is hidden. The alarm is enabled when removing it from the charger.
  - Press ▢. A *Delay MD/NV detection?* dialog window[5] appears. Disable the alarm temporarily for a specified time[6] by pressing "Yes". When the alarm is temporarily disabled, the corresponding alarm icon flashes.
- If no key/button is pressed during the warning tone, the alarm is sent. Depending on set parameters, a beep/vibrator/LED signal confirms that the alarm has been sent.
- An acoustic location signal (ALS) may be activated after the alarm has been sent, or a call may be established to a predefined number. See 6.5 Acoustic Location Signal on page 39, or 6.6 Automatic Call after Alarm on page 39.
- Information about the handset's location may be sent along with the alarm, see 6.4 Alarm with Location Information on page 39.

The Man-down alarm and No-movement alarm can temporarily be disabled during calls to avoid sending false alarms when the user tilts the handset or does not move during the call. If the Man-down alarm and No-movement alarm are disabled during calls, the corresponding icons are not displayed, see the handset's Configuration Manual.

See also 7.7.10 Alarm Settings on page 67.

6.3 Pull-Cord Alarm

Note: Pull-cord alarm is not available when upgrading the product license from d81 Messenger to d81 Protector. That is, only applicable for d81 Protector with the No-movement/Man-down hardware variant. In addition, this function requires a functionality license.

If needed, remove the pull-cord cover from the handset using a flat screwdriver before attaching the pull-cord. The pull-cord must be attached more than 5 seconds before pulling it off the handset. If not, the alarm is not generated.

Note: Make sure that the clip of the pull-cord is safely attached to the clothes.

5.Requires that the parameters "NM-MD extra delay used" and "NM-MD extra delay time" are set in the PDM/Device Manager.

Depending on set parameters;

- a beep is heard
- the orange LED flashes twice
- the vibrator stirs
- the handset receives a notification that the alarm has been received by the system. This is a system dependent feature.
- An acoustic location signal (ALS) may be activated after the alarm has been sent, or a call may be established to a predefined number. See 6.5 Acoustic Location Signal on page 39, or 6.6 Automatic Call after Alarm on page 39.
- information about the handset's location is sent along with an alarm, see 6.4 Alarm with Location Information on page 39.

See also 7.7.10 Alarm Settings on page 67.

6.4 Alarm with Location Information

Information about the handset's location can be sent along with an alarm. The location can be added as follows;

- Manually added by the user (see 6.4.1 Alarm with Data) or,
- An approximately location given by the closest Base Station (see the handset's Configuration Manual)
- An precise location given by DECT location devices or LF location devices if the handset supports LF location. For additional information, see the Configuration Manual, Ascom d81 DECT Handset, TD 92674EN.

6.4.1 Alarm with Data

The data must manually be defined and stored by the user, see Edit Alarm Data on page 67. It is recommended to add a shortcut for quick access to the "Edit alarm data" menu, see 7.6 Shortcuts on page 58.

6.5 Acoustic Location Signal

Depending on set parameters, the ramped up ALS is played after an alarm. The signal is always ramped from the lowest volume to the highest. Press ▢ to turn the ALS off.

Depending on the PDM/Device Manager settings, it is possible to make the user enter a password when turning the ALS off. The password is the same as the phone lock password.

ALS is configurable for Man-down & No-movement alarm, Push-button alarm and Pull-cord alarm. See Configuration Manual, Ascom d81 DECT Handset, TD 92674EN for more information.

6.6 Automatic Call after Alarm

A handset can be setup to call a predefined number after an alarm has been sent. It is also possible to dial the number without sending an alarm by pressing a push-button that is not configured with alarm functionality. Depending on the settings, the call can be established in the following modes;

- Loudspeaking mode[6], or
- Monitor mode, or

- Normal mode

See the handset's Configuration Manual for more information.

6.When Bluetooth is enabled, the loudspeaker audio is lowered due to current limitations in the intrinsically safe handset.

7 Menu Operation

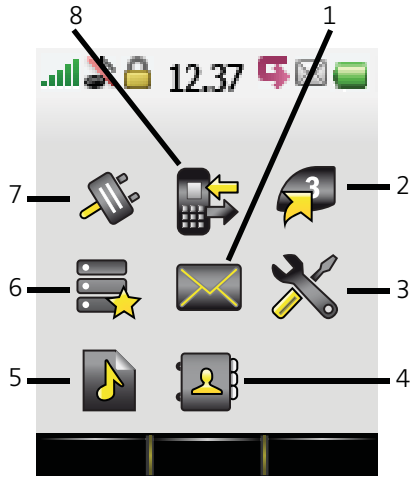


Figure 4. The Main Menu

(1) Messaging
(2) Shortcuts
(3) Settings
(4) Contacts
(5) Profiles
(6) Services
(7) Connections
(8) Calls

7.1 Calls

7.1.1 Call List

The 25 last received, dialed or missed calls are stored in a call list. If a number occurs more than once the last time stamp, together with the total number of occurrences, is shown.

NOTE: If supported by the system, the number's contact name can be displayed in the call list.

NOTE: The handset can also be prevented from storing calls in the call list[7]. This can for example be used to allow privacy for users sharing the same handset.

Dial number from Call list

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "Call" or to dial.

7.These features require configuration in the handset via PDM/Device Manager.

View the Time of a Call

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "More".
6 Select "Time of call". The time and date is displayed.

Tip: The duration of the last call is displayed under Call time, see 7.1.3 Call Time on page 43.

Edit Number from Call list

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "More".
6 Select "Edit number".

Save Number

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "More".
6 Select "Save number".

Send Message

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "More".
6 Select "Send message".

Delete Entry from the Call list

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "More".
6 Select entry to delete.
7 Select "Delete".

8 Select "Yes" to delete the entry from the list.

Delete all Entries from the Call list

1 Enter the menu by pressing the ‘‘Menu’’ soft key.
2 Select n the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "More".
6 Select "Delete all".

7.1.2 Missed Calls

NOTE: The dialog window that is displayed for a missed call can be turned off. In addition, the handset can be prevented from storing calls in the call list[8]. The latter feature can for example be used to allow privacy for users sharing the same handset.

The user can view missed calls by pressing "Yes". If the user presses "No", the missed calls can be viewed as follows:

1 Enter the menu by pressing the ‘‘Menu’’ soft key.
2 Select in the menu.
3 Select "Missed calls".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "Call", or to call back.

As in Call List there is a soft key "More" which can be used to view the time/date of the call, edit the received number, add to contacts, and delete received numbers. See 7.1.1 Call List on page 41 for information about the functionality in soft key "More".

NOTE: If supported by the system, the number’s contact name can be displayed in the list.

7.1.3 Call Time

The total time of the previous call and last call is displayed.

1 Enter the menu by pressing the ‘‘Menu’’ soft key.
2 Select n the menu.
3 Press "Select".
4 Select "Call time".

7.1.4 Push to Talk Group Call

The push-to-talk (PTT) function can be described as a group/conference call to a predefined group of members. If one of the group members wants to get in contact with the others, he/she simply presses and holds to open the microphone.

NOTE: Some legacy systems/PBXs require that the handset sends a predefined DTMF tone when pressing/releasing . See the handset’s Configuration Manual for more information.

8.These features require configuration in the handset via PDM/Device Manager.

To participate in the conference, the group members must first accept an invitation received as an incoming call or as a text message. See 7.1.5 Accept an Invitation on page 44.

If a member declines an invitation, he or she can re-join the group or conference later on. See 7.1.8 Re-join a Group on page 46.

A user can also invite a group of members to participate in a conference call by calling a PTT group, see 7.1.7 Call a PTT Group on page 46.

7.1.5 Accept an Invitation

Accept Invitation Received as Incoming Call (PTT Basic)

A PTT invitation received as an incoming call is indicated by the icon. In the dialog window, a message containing maximum 24 characters can also be shown.

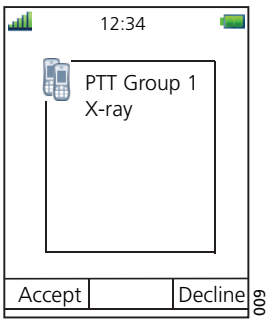


Figure 5. Incoming Invitation Received as a Call.

1 Press ''Accept'', or .
Default the handset starts in inverted mute and loudspeaking mode, but it can be configured differently in a PTT group.

2 Press and hold to open the microphone for transmitting. The microphone is muted again when is released.
NOTE: Some legacy systems/PBXs require that the handset sends a predefined DTMF when pressing/releasing .
If DTMF is activated, it is not possible to mute the microphone by releasing during a call. Instead, select More > Microphone off during the call.

Invitation Received as Incoming Call during an Ongoing Call

If a user receives an invitation during an ongoing call, it is displayed as an ordinary invitation, see figure 5 on page 44. The user can either accept or decline the invitation by pressing "Accept" or "Decline", respectively.

NOTE: It is not possible to accept or decline the invitation by pressing or , respectively.

If the user presses ''Accept'', the ongoing call is disconnected and the PTT call is connected.

Alternatively, the ongoing call can also be disconnected and the PTT call connected if the following is fulfilled:

- The handset is configured to answer invitations automatically
- The user does not respond to the invitation within 10 seconds

- The invitation has higher priority than the ongoing call

If the user declines the invitation, the he/she can re-join the PTT later on, see 7.1.8 Re-join a Group on page 46.

Accept Invitation Received as Message (PTT Advanced)

A PTT invitation received as a message is viewed the same way as an ordinary message. The message can contain up to 1000 characters. See Figure 6.

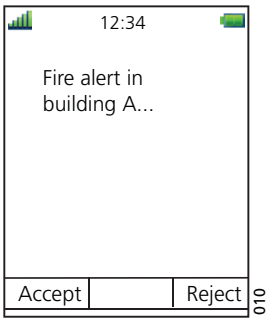


Figure 6. Incoming Invitation Received as a Message

1 Press "Accept".

The handset may accept the invitation automatically, start in inverted mute and loudspeaking mode, depending on the configuration of the received invitation.

When the invitation is accepted, the following screen appears (see figure 7 on page 45). The invitation can now be deleted or closed by clicking the soft key Delete or Close, respectively. The call is not disconnected when clicking these soft keys. The soft key Call is used for re-joining a group only, see 7.1.8 Re-join a Group on page 46.

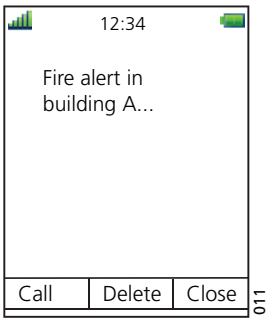


Figure 7. Accepted PTT Invitation

2 Press and hold ▢ to open the microphone for transmitting. The microphone is muted again when ▢ is released.

Invitation Received as Message during an Ongoing Call

If a user receives an invitation during an ongoing call, the call is disconnected and the PTT call is connected if the following is fulfilled:

- The handset is configured to answer invitations automatically
- The invitation is of higher priority than the call priority
- The user does not reject the invitation within 10 seconds

When the invitation is received, a warning signal notifies the user before disconnecting the current call to connect the PTT call.

NOTE: Depending on the priority of the invitation, the ongoing call might be disconnected immediately or after 10 seconds.

If the user rejects the invitation, it can be re-joined later on, see 7.1.8 Re-join a Group on page 46.

7.1.6 Decline a PTT Invitation

Decline Invitation Received as Incoming Call

Press ''Decline'', or to reject a PTT invitation. The handset returns to the previously shown screen. See also 7.1.8 Re-join a Group on page 46.

Decline Invitation Received as Message

Press "Reject" to reject the invitation. The handset returns to the previously shown screen. See also 7.1.8 Re-join a Group on page 46 for more information.

7.1.7 Call a PTT Group

Note: PTT group(s) must be defined in the PDM/Device Manager and Messaging Group(s) in IMS3/Unite CM to be able to use this function. See the handset's Configuration Manual, and Installation and Operation Manual for IMS3/Unite CM.

1 Press "Menu".
2 Select in the menu.
3 Select "PTT groups"[9].
4 Select PTT group.
5 Press "Call", or .

TIP: Alternatively, when in idle mode, press quickly, select PTT group, and press .

7.1.8 Re-join a Group

Re-join a Group from Call List

If a PTT invitation was received as a call and the user rejected or missed it, the PTT group can be dialed from the Call list or Missed calls, respectively. The PTT invitation is indicated by the icon in the list. See 7.1.1 Call List on page 41, or 7.1.2 Missed Calls on page 43.

Re-join a Group from Messaging Inbox

If an PTT invitation was received as a text message and then rejected, the PTT group can be dialed by selecting the message indicated by the icon in the Messaging inbox, and then press the soft key "Call". See figure 7 on page 45.

9.Only available if PTT group(s) is defined in handset via PDM/Device Manager.

7.1.9 Call Services

Note: These functions are system dependent. In addition to the default Call services functions, up to 10 additional system specific call services can be defined, with or without automatic disconnection. The parameters are set up in the PDM/Device Manager. See the handset Configuration Manual.

Absence Handling

The reason for being absent and the return time can be specified here.

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call services".
4 Select "Absence".
5 Select the applicable absence reason in the list. The number of absence reasons (for example ''Lunch'', ''Meeting'', ''Trip'' etc.) are configured in the PDM.
6 Press "Select.
7 Enter time (HHMM) or date (MMDD) depending on the selected absence reason.
8 Press "OK".

The handset sends an absence reason code to the system by establishing a call. The call is automatically disconnected after a few seconds.

Deactivate the Absence Setting

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select in the menu.
3 Select "Call services".
4 Select "Absence".
5 Select ''Deactivate''.
6 Press "Select".

Divert Internal/External Calls

1 Enter the menu by pressing the ''Menu'' soft key.
2 Select n the menu.
3 Select "Call services".
4 Select "Divert calls"
5 Select "Internal" or "External".
6 Select "Activate".
7 Enter number (maximum 24 digits) to divert to, or press the soft key •🕮 to enter the call contact list.
8 Press "OK"

The handset sends a diversion reason code to the system by establishing a call. The call is automatically disconnected after a few seconds.

To stop diversion select "Deactivate" and press the soft key "OK".

Divert Calls if No Reply

1 Enter the menu by pressing the ‘‘Menu’’ soft key.
2 Select n the menu.
3 Select "Call services".
4 Select "Divert calls"
5 Select "No reply".
6 Select "Activate".
7 Enter number (maximum 24 digits) to divert to, or press the soft key to enter the call contact list.
8 Press "OK"

The handset sends a diversion reason code to the system by establishing a call. The call is automatically disconnected after a few seconds.

To stop diversion select "Deactivate" and press the soft key "OK".

Divert Calls When Busy

1 Enter the menu by pressing the ‘‘Menu’’ soft key.
2 Select n the menu.
3 Select "Call services".
4 Select "Divert calls".
5 Select "When busy".
6 Select "Activate".
7 Enter number (maximum 24 digits) to divert to, or press the soft key to enter the call contact list.
8 Press "OK".

The handset sends a diversion reason code to the system by establishing a call. The call is automatically disconnected after a few seconds.

To stop diversion select "Deactivate" and press the soft key "OK".

7.2 Contacts

The handset has a local phonebook with 250 entries, where names and numbers freely can be added, deleted, and edited by the user. The phonebook lists all names in alphabetical order, where three numbers can be added for each contact; work number, mobile number, and other number.

A company phonebook can be downloaded via the PDM/Device Manager. The local and company phonebook appears in the same list, but the company contacts are indicated by a icon , which means that they are not editable.

A central phonebook can also be accessed, see 5.2.9 Dial a Name from the Central Phonebook on page 31, or 7.2.6 Central Phonebook on page 50. This feature is system dependent.

TIP: When searching for a contact, adding and editing a contact, the input language can be temporarily by long pressing . This can be used, for example, to temporarily access foreign language characters.

7.2.1 Call Contact

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Call contact".
4 Select contact from the list, or enter name or number in the Search field.
5 Press "Call", or .

the contact can also be edited and a message sent by selecting "View" > "More". Note that it is not possible to edit a contact indicated by a icon in front of the name.

7.2.2 Add Contact

Add New Contact

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Add contact".
4 Select "New".
5 Select "Add".
6 Enter a name, see 2.1.2 Alphanumeric Keys on page 8.
7 Press "OK".
8 Select "Work Number", "Mobile number", or "Other number".
9 Press "Add".
10 Enter number. A tone "T" or pause "P" can be included in phone numbers by pressing 0 5 times or 7 times, respectively.

TIP: A variable or character *U* can be added to the Work/Mobile/Other number field to allow the user to enter additional numerical characters before calling the number. See 8 Procedure Call on page 74 for more information.

11 Press "OK".
12 Press "Save".

A specific ring signal can be set for each contact, see 7.2.4 Set Ring Signal for a Contact on page 50.

Add from Call List

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Add contact".
4 Select "From call list".
5 Select number in the list.
6 Press "Add".
7 Select Work Number", "Mobile number", or "Other number".
8 Press "Add".
9 Enter name, see 2.1.2 Alphanumeric Keys on page 8.
10 Press "OK".
11 Press "Save".

A specific ring signal can be set for each contact, see 7.2.4 Set Ring Signal for a Contact on page 50.

7.2.3 Edit Contact

Note: It is not possible to edit a company phonebook contact. The contacts are indicated by a icon in front of the name.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Edit contact".
4 Select contact.
5 Press "Edit".
6 Select "Name", "Work number", "Mobile number", "Other number", or "Ring signal".
7 Press "Edit".
8 Enter new name, number and/or select new ring signal.

TIP: A variable or character *U* can be added to the Work/Mobile/Other number field to allow the user to enter additional numerical characters before calling the number. See 8 Procedure Call on page 74 for more information.

9 Press "OK".
10 Press "Save".

7.2.4 Set Ring Signal for a Contact

A specific ring signal can be set for each contact.

1 Add/edit a contact according to 7.2.2 Add Contact on page 49 or 7.2.3 Edit Contact on page 50.
2 Select "Ring signal"
3 Select the ring signal to be used for the selected contact.
4 Press "Back" and the press "Save".

7.2.5 Delete Contact

Note: It is not possible to delete a company phonebook contact. The contacts are indicated by a icon in front of the name.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Delete contact".
4 Select contact.
5 Press "Delete".
6 Press "Yes" to confirm.

7.2.6 Central Phonebook

In the central phonebook it is possible to search by name or number. The last search result can be displayed.

When the search result is displayed, it is possible to view contact information, add the number to new contact, and to send a message by pressing "More". It is also possible to call the number by pressing "Call".

Search by Name

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Central phonebook".
4 Select "Search by name".
5 Enter First name and/or Last name.

TIP: When searching for a contact, it is possible to temporarily change the input language by long pressing . This can be used to access characters in a foreign language temporarily.

6 Press "Search". The search result is displayed.

Search by Number

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Central phonebook".
4 Select "Search by number".
5 Enter number.
6 Press "Search". The search result is displayed.

View Last Search Result

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Central phonebook".
4 Select "Last result". Only the last result is displayed.

7.3 Profiles

It is possible to set up an own profile for incoming calls, message alerts, vibrating alerts, key sound, soft keys etc.This can be useful when there are several users on the same handset, and they want different sound profiles. It can also be used for temporarily settings, for example while in a meeting when incoming calls should be silent. It is easy to switch between the different profiles.

If no profile is selected, the normal settings are used.

NOTE: The settings in a profile can be superseded if the corresponding settings in a system profile are activated. When the system profile is activated, its settings is not displayed in the handset menu. However, it is possible to display when a system profile is activated in the handset. See 9 System Profiles on page 75.

Add New Profile

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Add new".

4 Enter name of the profile.

5 Press "Save".

6 Press "More" and then select "Add setting".

7 Select the setting you want to add to the profile.
Repeat steps 6-7 if you want to add additional settings.

8 Mark the wanted setting and press "Edit" to make the changes.

It is also possible to create a new profile based on another profile by do the following:

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Add new".

4 Enter name of the profile.

5 Press "Save".

6 Press "More" and then select "Import from".

7 Select the profile which settings to be used for the new profile.

8 If needed, press "More" and then select corresponding option to add/import additional settings or remove settings.

Activate Profile

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select profile from list.

When a profile is activated, the icon and the name of the profile are displayed in idle mode.

Delete Profile

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select profile from list.

4 Press "More".

5 Select "Delete" from menu.

6 Press "Select".

7 Press "Yes" to confirm.

Edit Profile

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select the profile to edited.

4 Press "More" and then select "Edit".

5 Following options can be performed:

- Edit the wanted setting by marking it and then press "Edit".
- Add additional settings by pressing "More" and then select "Add setting" or "Import from".
- Remove a setting by marking it and then select More > Remove setting.

6 If needed, mark the added settings and press "Edit" to make the changes.

7.4 Messaging

When a text message is received, the LED starts flashing green once and the message alert signal sounds. The icon nd the content of the received message are automatically displayed. The icon remains in the display until all new messages are opened. If the message is received during a call, a beep notifies the user.

TIP: It is possible to change how incoming messages are indicated while charging a handset. When activated, only the icon is displayed and the message alert is muted when receiving a message. See the handset's Configuration Manual for more information.

It is possible to reply, forward the message, call the sender, and call number[10] included in a text.

A message can also be read later by pressing "Close". A received message is stored in the Inbox. See Read a Stored Message on page 53.

TIP: If you want to close several new messages quickly, press . The messages is indicated as unread messages in the Messaging inbox.

The thirty last received messages are stored in the inbox. Time and date information is included in the message.

If a message is received when the inbox already contains thirty messages, the message in the inbox with the oldest time and date is automatically replaced by the newly received message.

TIP: New messages and information about incoming calls can be displayed upside down. This can be useful if you wear the handset in a belt and want to read the message/call information without rotating the handset. When pressing any key, the messages are displayed in the normal way. See the handset's Configuration Manual for more information.

NOTE: If the phone is locked with a PIN, the user must unlock the phone to access a received message.

See also 11 Enhanced Messaging on page 78 for additional messaging features.

7.4.1 Inbox

Read a Stored Message

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Inbox" to view the message list.

4 Select a message by using the ⌄ and ⌃ on the navigation key.

5 Press "View".

10.The number must consists of minimum 3 digits.

Reply to Sender

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "Reply".
7 Enter text. See 2.1.2 Alphanumeric Keys on page 8.
8 Press "Send".

Delete Message

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "More".
6 Select "Delete".
7 Press "Yes" to delete the message.

Forward Message

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "More"
7 Select "Forward".
8 Enter additional text if needed. See 2.1.2 Alphanumeric Keys on page 8.
9 Press "Send".
10 Enter number, or press to access contacts in the local phonebook and the company phonebook.
11 Press "Send" to forward the message.

Call Sender

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "More".
7 Select "Call Sender".

Call Number in Text

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Do one of the following:
- Press "More" and select "Call no. in text"[11].
- Press .

7 If the message contains several numbers, select the number to be called from the list.
8 Press "Call", or .

Save Number

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "More".
7 Select "Save number".
8 Select "Work Number", "Mobile number", or "Other number".
9 Press "Add".
10 Enter name. See 2.1.2 Alphanumeric Keys on page 8.
11 Press "OK".
12 Press "Save". The number is saved in the contact list.

7.4.2 Write New Messages

A message can be constructed from scratch, or from a predefined template that can be used as it is or edited. For additional information about message templates, see 11.9 Message Templates on page 82 . The maximum message length is normally 160 characters but may be less depending on the character set used.

The first character entered is always upper-case, followed by lower-case character. However, this may be overridden by pressing the * -key before entering the character.

When pressing a key, the first available character for that key is displayed, see See 2.1.2 Alphanumeric Keys on page 8. To enter the other characters supported by the key, press the key until that character appears in the display.

The keys 0-9, * or # can be used. Keys 0 and 1 contains special characters, see See 2.1.2 Alphanumeric Keys on page 8 to see all characters.

For example, to enter the character E, press key 3 twice. "E" appears in the display and is selected after a timeout or when another key is pressed.

11.Visible if the number consists of minimum 3 digits.

TIP: If the system supports UTF-8 character encoding, the input language can be changed temporarily by long pressing . This can be used to temporarily access characters in a foreign language.

To delete a character, press "Clear".

To construct and send a message, perform the following steps:

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Write new message".
4 Write the message from scratch or select a message template by pressing the "More" soft key and, if required, edit the message as described in 11.9.1 The Templates Menu on page 83.

NOTE: The "More" key is not displayed if no message templates have been defined.

5 Press "Send".
NOTE: A message can be saved and sent later by pressing the soft key "Back" and select "Yes". The message is stored under Unsent messages. See 7.4.3 Unsent Messages.
6 Enter number, or press to access contacts in the local phonebook and the company phonebook.
7 Press "Send".

7.4.3 Unsent Messages

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Unsent" to view the list.
4 Select message to edit/send.
5 Select "Edit", edit text and/or just select "Send".

Delete/Delete All

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Unsent"
4 Select message in the list.
1 Select "More".
2 Select "Delete" or "Delete all".
3 Select "Yes" if the unsent messages are deleted.

7.4.4 Sent Messages

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select message in the list.
5 Press "View".

Forward message

1 Press "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select message in the list.
5 Press "View".
6 Enter additional text if needed.
7 Enter number, or press to access contacts in the local phonebook and the company phonebook.
8 Select "Send".

Delete Message

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select message in the list
5 Press "View".
6 Select "Delete".
7 Select "Yes" to confirm the deletion.

Delete and Delete All

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select "More".
5 Select "Delete" or "Delete all".
6 Select "Yes" to confirm the deletion.

7.4.5 Review Inbox Content while Reading a Message

To review the content of the inbox while reading a received message, perform the following steps:

1 Press the "More" soft key
2 From the pop-up menu, select "Inbox". The message summaries contained in the inbox are displayed.
3 To return to the message previously being read, press the "Back" soft key.

7.5 Services

With this menu it is possible to customize your own menu with services/functions that are used often. A list of predefined services/functions are available for example; Write new message, Central phonebook, Call contact, etc.

TIP: If configuring the *Phone call* function, it is possible to add a variable/character *U* in the *Enter number* field that allows the user to enter additional numerical characters before

calling the number. See 8 Procedure Call on page 74 for more information.

7.5.1 Add Services

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Add new".
4 Enter a name of the service in the field, and then press "OK"
5 Select a function using ⌄ and ⌃ on the navigation key.
6 If needed, enter values in the fields (only applicable for some of the functions)
7 Press "Back".

7.5.2 Edit Services

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Mark a service using the ⌄ and ⌃ on the navigation key.
4 Press "More"
5 Select "Edit".
6 Edit the service parameters.
7 Press "Back"

7.5.3 Delete Services

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Mark a service using the ⌄ and ⌃ on the navigation key.
4 Press "More".
5 Select "Delete" using the ⌄ and ⌃ on the navigation key, and press "Select"
6 Press "Yes" to delete the service.
7 Press "Back".

7.6 Shortcuts

Predefined functions can be set as shortcuts for the Soft Keys, Hot keys, and Navigation keys. It is for example possible to define the Soft Key to make a call or as a shortcut to send a message.

TIP: When creating a shortcut to the *Phone call* function, it is possible to add a variable/ character *U* in the *Enter number* field that allows the user to enter additional numerical characters before calling the number. See 8 Procedure Call on page 74 for more information.

7.6.1 Define Soft Keys

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Soft Keys".
4 Select "Middle" or "Right".

5 Enter a name for the Soft Key. See 2.1.2 Alphanumeric Keys on page 8.

6 Press "OK".

7 Select "Function".

8 Select function from list, and press "Back".

9 Select "Value" (only for some of the functions), and press "Select". Enter a value, for example a number. Press "Back".

10 Select "Control question", and press "Select". It is off by default. Press "Back".
If the control question is enabled, a *Proceed?* dialog window is displayed when pressing the defined Soft key. Press "Yes" to proceed.

11 Press "Save".

7.6.2 Define Hot Keys

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Hot keys".

4 Select "0", "2" to "9".

5 Select "Function".

6 Select function from list, and press "Back".

7 Select "Value" (only for some of the functions), and press "Select". Enter a value for example a number. Press "Back".

8 Select "Control question", and press "Select". It is off by default.
If the control question is enabled, a *Proceed?* dialog window is displayed when pressing the defined Hot key. Press "Yes" to proceed.

9 Press "Save"

7.6.3 Define Navigation Key

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Navigation keys".

4 Select "Up", "Down", "Left", or "Right".

5 Select "Function".

6 Press "Select" to select function for the key.

7 Select function from list, and press "Back".

8 Select "Value" (only for some of the functions). Enter a value for example a number. Press "Back".

9 Select "Control question".
It is disabled by default. If the control question is enabled, a *Proceed?* dialog window is displayed when pressing the defined key. Press "Yes" to proceed.

10 Press "Save".

7.7 Settings

7.7.1 Sound and Alert Settings

Adjust the Ring Volume

NOTE: An intrinsically safe handset's ring volume is lower than a non-intrinsically safe handset's ring volume due to current limitations.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Sound & Alerts.
4 Select ''Volume''.
5 Step with › to increase the volume and with ‹ to decrease it. Press "Back" to save the setting.

NOTE: If a handset restriction is enabled, it might not be possible to set the ring signal to *Silent*. See the handset's Configuration Manual for more information.

Set different Ring Signals for Calls

1 Enter the menu by pressing "Menu".
2 Select n the menu.
3 Select ''Sound & Alerts''.
4 Select ''Ring signals''.
5 Different signals for internal calls, external calls, call back and PTT calls can be set. Select "Internal call", "External call", "Callback", or PTT". The handset has 14 different ring signals.

NOTE: Additional ring signals might be selectable if they are configured via PDM/Device Manager. See the handset's Configuration Manual for more information.

6 Press "Back".

Set Alert for Messages

1 Enter the menu by pressing "Menu".
2 Select n the menu.
3 Select ''Sound & Alerts''.
4 Select ''Message alert''.
5 Select the wanted message alert from the list. By pressing "Play" it is possible to listen to the different alerts.

   TIP: The option *Custom sound* should be selected you want to create an own message alert. See the handset's Configuration Manual for more information.

   NOTE: The "Play" soft key is not available for Enhanced beep and Custom sound. Instead, send a message to the handset to listen to the sound.

6 Press "Back".

TIP: By default, the message volume follows the ring volume setting, but it is possible to set another message volume in the handset. See the handset's Configuration Manual for more information.

Turn the Vibrator On and Off

If the vibrator is activated, the handset vibrates on incoming calls and messages.

TIP: The handset vibrator can also be activated when receiving a message during a call via PDM/Device Manager. See the handset's Configuration Manual.

NOTE: When the vibrator is enabled on an intrinsically safe handset, the handset alternates between vibration and sound. That is, vibration and sound are not activated simultaneously.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select ''Sound & Alerts''.
4 Select ''Vibrator alert''.
5 Select ''On'', ''On if silent'' (that is, the vibrator is on when the handset is muted), or ''Off''
6 Press "Back".

Set the Key Sound

This means that every time a key is used, the handset emits a small sound.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select ''Sound & Alerts''.
4 Select ''Key sound''.
5 Select ''Silent, ''Click'', or ''Tone''.
It is possible to listen to the key sound by pressing "Play".
6 Press "Back".

7.7.2 Keypad Lock Settings

The handset keypad can be locked automatically to minimize the risk of accidentally pressing keys or buttons while the handset is not in use. The keypad is automatically locked after a lock time parameter "Auto lock time" expires.

Note: The alarm button can be pressed while the keypad is locked. Any one of five predefined emergency numbers can also be called while the keypad is locked as long as this feature has been configured in the PDM/Device Manager. For additional information, see the Configuration Manual for the Ascom d62 DECT Handset.

The automatic key lock can be configured by the administrator in the PDM/Device Manager. For additional information, see the Configuration Manual for the Ascom d62 DECT Handset. The user may also configure the automatic key lock as described in the following sections.

Automatic key lock: One of the following options may be configured:

"On": the keypad is automatically locked if it is not used before the specified lock time elapses.

"On, except calls": the keypad is automatically locked if it is not used for the specified lock time. If the user is in call when the lock time elapses, the keypad remains unlocked until the user has completed the call.

"Off": the keypad is never automatically locked.

Auto lock time: specifies the time that elapses before the keypad is automatically locked. The shortest time that may be specified before the key lock is applied is 5 seconds and the longest time is 3 minutes.

Auto key unlock: the keypad is automatically unlocked when a call or message is received. When the user has serviced the call or message, the key lock is reapplied after the specified automatic lock time expires.

Activate the Automatic Key Lock

The user activates the automatic key lock and sets the Auto lock time from the handset "Settings" menu in the following way:

1 Enter the menu by pressing "Menu".

2 Select n the menu.

3 Select ‘‘Locks’’. The "Locks" menu is displayed.

4 Select "Automatic key lock" menu item and select "On" or "On except calls".

NOTE: The current key lock setting is displayed under the "Automatic key lock" menu item.

5 Press the "Back" soft key to redisplay the "Locks" menu.

6 Select "Auto lock time" and press the "Select" soft key.

7 Select the required lock time and press the "Select" soft key.

NOTE: The alarm button can be pressed while the keypad is locked. Any one of five predefined emergency numbers can also be called while the keypad is locked as long as this feature has been configured in the PDM/Device Manager. For additional information, see the handset Configuration Manual.

NOTE: A call can be answered or ended while the keypad is locked.

NOTE: If the handset is configured via the PDM/Device Manager, any one of five predefined emergency number can also be called while the keypad is locked. See the handset Configuration Manual.

Deactivate the Automatic Key lock

1 Enter the menu by pressing "Menu".

2 Select n the menu.

3 Select ‘‘Locks’’.

4 Select "Automatic key lock".

5 Select "Off" to deactivate the automatic key lock.

7.7.3 Phone Lock Settings

The handset can be protected for unauthorized use by activating the phone lock. The phone lock may be set to:

- "On": The handset is automatically locked if not used for the specified automatic lock time or when it is first turned on.
- "On in charger": The handset is locked immediately when placed in the charger. When removed from the charger and unlocked by the PIN, the handset remains unlocked

- "Off": The handset is never locked.

The default phone lock PIN code (0000) can be changed to any 4 to 8 digit personalized code.

The length of time before the handset locks automatically is set by the "Auto lock time" parameter. The shortest time that can be set before the handset locks is 5 seconds and the longest time is 3 minutes.

NOTE: If configured in the handset, any one of five predefined emergency numbers can be called while the handset is locked. See the handset's Configuration Manual. If the d81 Protector is used, the Alarm button can also be used while the handset is locked.

Activate the Phone Lock

The phone lock settings are activated from the handset "Settings" menu in the following way:

1 Enter the menu by pressing "Menu".
2 Select n the menu.
3 Select ''Locks''.
4 Select ''Phone lock''.
5 Select ''Auto phone lock''.
6 Select "On" or "On in charger" as required.
7 Enter PIN code.
8 Press "OK".
9 Press the "Back" soft key twice to return to the "Locks".
10 Select "Auto lock time".
11 Select the required lock time.

If the PIN code is forgotten it can be removed by your distributor.

Deactivate the Phone Lock

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select ''Locks''.
4 Select ''Auto phone lock''.
5 Select ''Off''.
6 Enter PIN code
7 Press "OK".

If the PIN code is forgotten it can be removed by your distributor.

Change PIN Code

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select ''Locks''.
4 Select "Phone lock".

5 Select "Change PIN code".

6 Enter the old PIN code.

7 Press "OK".

8 Enter the new PIN code.

9 Press "OK" and enter the new PIN code again.

10 Press "Save".

7.7.4 Display Settings

Screen Saver

The screen saver can be set to one of the following settings:

- Information: Displays status and identification information while the handset is idle.
- Black: The screen is black when the handset is idle.
- Black also in call: The screen is also black when the handset is in call.

To set the screen saver:

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select ''Display''.

4 Select ''Screen saver''.

5 Select ''Information'', ''Black'', or ''Black also in call''.

6 Press "Back".

NOTE: When charging the handset and the screen saver is shown, no missed calls and incoming messages are indicated in the display.

When the handset is in a CR3 charging rack, the owner ID and the variant of the handset are displayed. This simplifies identification when many handsets are charged together.

Brightness

NOTE: An intrinsically safe handset's display brightness is lower than a non-intrinsically safe handset's display brightness due to current limitations.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select ''Display''.

4 Select ''Brightness''.

5 Select ''Normal'' or ''Power save''.

6 Press "Back".

Contrast

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select ''Display''.

4 Select ''Contrast''.

5 Step with › to increase and ‹ to decrease the contrast.

6 Press "Back".

7.7.5 Time and Date Settings

The time and date displayed in the handset cannot be changed by the user. The DECT system is solely responsible for keeping the time. The handset also synchronises with the DECT system time when:

- The handset is turned on after having been turned off. The handset requests the current DECT system date and time.
- The handset remains on for longer than 24 hours. The handset requests the DECT system time every 24 hours from the time it was last turned on.

The time and date formats displayed in the handset can be changed by the user as described in the following sections.

Set Time Format

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Time & Date".
4 Press "Select".
5 Select Time format. The actual time format is displayed. Selectable time format:

- 12:00 (AM/PM)
- 24:00

6 Press "Select" to save the setting.

Set Date Format

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select ‘‘Time & Date’’.
4 Press "Select".
5 Select ‘‘Date format’’, press "Select". Selectable date format:

- DD MMM YY, for example 30 Jan 11
- MMM DD YYYY, for example Jan 30 2011
- YYYY-MM-DD, for example 2011-01-30 (ISO 8601)
- MM/DD/YYYY, for example. 01/30/2011 (also called US)
- DD/MM/YYYY, for example 10/01/2011 (also called Europe)
- DD-MM-YYYY, for example 30-01-2011
- DD.MM.YYYY, for example. 30.01.2011

6 Press "Select" to save the setting.

7.7.6 Answering

The default setting for the handset is to use when answering a call. The answering behaviour can be configured to answer the call automatically, that is, without pressing a key, or/and in loudspeaking[12] mode. The answering behaviour can also be set to any key. If "Any key" is selected, any key except , , and can be used to answer a call.

Answering Key

The answering key is by default set to Hook-off.

1 Enter the menu by pressing "Menu".
2 Select n the menu.
3 Select "Answering".'
4 Select "Answering key".
5 Select "Hook-off", or "Any key".
6 Press "Back" to save the settings.

Answering Behaviour

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Answering".'
4 Select "Answer behaviour".
5 Select "Automatically" or "Loudspeaking".
6 Press "Change" to change the setting. The check box is marked.
7 Press "Back" to save the setting. To remove the setting, press "Change". The check box is unmarked.

7.7.7 Change Text size for Messages

1 Enter the menu by pressing "Menu".
2 Select n the menu.
3 Select "Messages".
4 Select "Text size Normal". The default text size is "Normal".
5 Select "Normal" or "Large" size.
6 Press "Back".

7.7.8 Change the Menu Language

1 Enter the menu by pressing "Menu".
2 Select n the menu.
3 Select ‘‘*Language’’.
4 Select the language to be used.
5 Press "Back".

Tip: It is also possible to download an additional language to the handset, see 13.1 Software Upgrade and Additional Features on page 86.

7.7.9 Change Owner ID

The Owner ID is set to identify the handset.

1 Enter the menu by pressing "Menu".

12.1.When Bluetooth is enabled, the loudspeaker audio is lowered due to current limitations in the intrinsically safe handset.

2 Select in the menu.

3 Select "Owner ID".

4 Enter name/identity. See 2.1.2 Alphanumeric Keys on page 8.

5 Press "Save".

7.7.10 Alarm Settings

Tip: It is recommended to configure a shortcut to this menu if it is frequently used, see 7.6 Shortcuts on page 58.

NOTE: This menu is applicable for d81 Protector only.

Activate alarm

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Alarm".

4 Select "Activate alarm".

5 Select "Pull-cord"[13], "Man-down", and/or "No-movement".

6 Press "Select" to change the setting. The check box is marked.

7 Press "Back" to save the setting. To remove the setting, press "Select". The check box is unmarked.

When an alarm is activated, the corresponding alarm icon is show, see Table 8.

	Pull-cord alarm
	Man-down alarm
	No-movement alarm

Table 8. Alarms icons

The Man-down alarm and No-movement alarm can temporarily be disabled during calls to avoid sending false alarms when the user tilts the handset or not moves during the call. If the Man-down alarm and No-movement alarm are disabled during calls, the corresponding icons are not displayed.

NOTE: See also Configuration Manual, Ascom d81 DECT Handset, TD 92674EN for additional settings and 6 Alarm Operation on page 37.

Edit Alarm Data

Information (for example a handset's location) can be sent along with an alarm. It is recommended to create a shortcut for quick access to the "Edit alarm data" menu, see 7.6 Shortcuts on page 58.

1 Enter the menu by pressing "Menu".

13.Requires a functionality license.

2 Select in the menu.
3 Select "Alarm".
4 Select "Edit alarm data".
5 Enter alarm data.
6 Press "Save".

7.8 Connections

7.8.1 Bluetooth

Enable Bluetooth Connection

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Bluetooth".
4 Select "Enable". A Bluetooth connection icon is displayed in the header bar.

NOTE: When enabling Bluetooth on an intrinsically safe handset, it is restarted.

Disable Bluetooth Connection

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Bluetooth".
4 Select "Disable".

NOTE: When disabling Bluetooth on an intrinsically safe handset, it is restarted.

Pair/Connect Bluetooth Headset

To be able to use a Bluetooth headset, it must first be paired with the handset. It is only needed to pair the Bluetooth headset once. A paired Bluetooth headset is automatically connected, as indicated by the icon ■ in front of the headset.

1 Set the Bluetooth headset in pairing mode, see the user manual for the Bluetooth headset.
2 Enable Bluetooth, see Enable Bluetooth Connection.
3 Enter the menu by pressing "Menu".
4 Select in the menu.
5 Select "Bluetooth".
6 Select "Headset".
7 Select "Add new". A *Put headset in Pairing mode* dialog window is displayed.
8 Press "OK". It now searches for a Bluetooth headset for connection.
9 When headset is found, press "Pair".

10 If needed, enter PIN code, see user manual for the Bluetooth headset. Press "OK".

The dialog *Successful pairing* appears if the pairing process was successful. The Bluetooth headset is also connected as indicated by the icon ■ in front of the headset.

TIP: It is possible to configure the headset button with a specific function, such as post-dial, dial last called number, or dial a predefined number. See the handset's Configuration Manual for more information.

Pair/Connect Bluetooth Barcode Reader

To use a Bluetooth barcode reader, it must first be paired with the handset. It is only needed to pair it once. A paired Bluetooth barcode reader is automatically connected, as indicated by the icon ■ in front of the barcode reader.

See also 11.11 Send Data with Bluetooth Barcode Reader on page 84.

1 Enable Bluetooth, see Enable Bluetooth Connection.

2 Put the Bluetooth barcode reader in pairing mode, see the user manual for the Bluetooth barcode reader.

3 Enter the menu by pressing "Menu".

4 Select in the menu.

5 Select "Bluetooth".

6 Select "Barcode reader"[14].

7 Select "Add new". A dialog window "Put barcode reader in pairing mode" is displayed.

8 Press "OK". It now searches for a Bluetooth barcode reader for connection.

9 When Bluetooth barcode reader is found, press "Pair".

10 If needed, enter PIN code, see user manual for the Bluetooth barcode reader. Press "OK".

The dialog *Successful pairing* appears if the pairing process was successful. The Bluetooth barcode reader is also connected indicated by the icon ■ in front of the barcode reader.

7.8.2 Headset

To achieve optimal audio quality with the different headset types, it is recommended to select the corresponding headset type.

The default setting is microphone on a boom, that is, the audio is optimized for using a headset with microphone on a boom. The headset type can be changed in the menu by doing as follows:

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Headset".

4 Select the corresponding headset type from list, that is, "Mic on boom", or "Hearing protection". Additional headsets[15] might be visible in the list.

5 Press "Select".

14. Requires a functionality license
15.Only visible if a headset profile has been configured in the PDM/Device Manager.

TIP: It is possible to configure the headset button with a specific function, such as post-dial, dial last called number, or dial a predefined number. See the handset's Configuration Manual for more information.

NOTE: When Bluetooth is disabled and having an active call in loudspeaker mode on an intrinsically safe handset, the audio is not transferred to the headset when connecting it.

IMPORTANT: The headset *Microphone on a boom* is not available as accessory for the intrinsically classified handset. If used, it is NOT permitted to use the headset in hazardous areas.

7.8.3 System

The handset can subscribe up to eight different systems.

Change System

Select ''Automatic'' or a specific system. If the handset is set to ''Automatic'', it selects a system according to the priority list, see Priority on page 71.

Subscribe Handset in IP-DECT System using Easy Registration

A handset can subscribe to an IP-DECT system automatically if the following are fulfilled:

- The IP-DECT system is configured for Easy Registration, see Installation and Operation Manual, IP-DECT Base Station and IP-DECT Gateway, TD 92579EN.
- The handset's extension number and IPEI are registered in the IP-DECT system, see the corresponding manual for the IP-DECT system.
- The handset is not subscribed to any systems.
- The handset software is version 3.0.x or greater.

1 If needed, switch off the handset by pressing .

2 Switch on the handset by pressing .

3 Select language to be used or press "Cancel". If *Cancel* is pressed, the default language English is used.

4 The handset starts to search for IP-DECT systems and subscribes to the system when it is found.

NOTE: If no system is found within 2 minutes or "Cancel" is pressed, the handset's subscription menu is displayed. Continue with step 5 in chapter Subscribe Handset in DECT System Manually for more information.

Subscribe Handset in DECT System Manually

To subscribe an DECT system manually, the ''Park:'' (Portable Access Right Key) and ''Ac:'' (Authentication code) related to the system are needed. Contact the system administrator for more information.

NOTE: The PARK code may not be needed if there is no alien DECT system within the coverage area.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "System".

4 Select "Subscribe".

5 The handset's IPDI is displayed. The IPDI is a unique code that has been assigned to the handset. Press "Next".

6 Enter System name (optional). If no system name is entered, the default name is used. That is System A, System B etc. depending on which system name that is free.

Note: The System name might not be displayed depending on the handset's Display Management Layout setting. See the handset's Configuration Manual.

7 Press "Next".

8 Enter PARK code (max. 31 digits). The PARK code may not be needed if there is no alien DECT system within the coverage area.

9 Enter AC code. The AC code length must be between 4 - 8 digits.

10 Press "Next".

11 An information text "Protection on?" is displayed. Select "Yes" if the new system is to be protected. It is not possible to delete a protected subscription from the System menu[16].

12 Press "OK". A searching mode starts.

Unsubscribe System

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "System".

4 Select "Unsubscribe".

5 Select the system to unsubscribe.

6 Press "Yes to unsubscribe the system.

Rename System

It is possible to change the name of the system in the handset.

1 Enter the menu by pressing the ''Menu'' soft key.

2 Select in the menu.

3 Select "System".

4 Select "Rename System".

5 Select system to rename.

6 Enter new name.

7 Select "Save".

Priority

The default order of priority is the order of entered subscriptions. This means that the first subscribed system has the highest priority. This list can be edited by the user. It is possible to set the systems in priority by moving them up or down in the list.

NOTE: This is used in combination with system set to be "Automatic", see Change System on page 70.

1 Enter the menu by pressing "Menu".

16.It is not possible to unsubscribe a protected system via the System menu. The unsubscribtion must be made via the Admin menu or the DECT system.

2 Select in the menu.

3 Select "System".

4 Select "Priority".

5 Change the priority if needed by selecting "Up" or "Down". The priority is saved when "Back" is selected.

7.8.4 In Charger Action when in Call

It is possible to determine actions to be performed when a handset is placed in charger during a call.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "In charger".

4 Select "Call behavior".

5 Select one of the following:

- No action - no action is performed when handset is placed in charger during a call.
- Loudspeaking - The loudspeaker is activated when handset is placed in charger during a call.
- End call - The call is disconnected when handset is placed in charger.

7.8.5 In Charger Action when not in Call

It is possible to determine actions to be performed when a handset is not in call and placed in charger.

Note: Additional In charger actions can also be configured, see the handset's Configuration Manual.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "In charger".

4 Select "Other actions".

5 Select one of the following:

- No action - no action is performed when handset is not in call and placed in charger.
- Switch off[17] - When the handset is placed in the charger it will switch off. When it is removed from the charger it will switch on again.
- Sound off[18] - The handset is muted when placed in the charger. When it is removed from the charger it switches on the sound again. NOTE: Messages with breakthrough, for example high or alarm priority, is not muted[19].
- Logout - The handset is logged out when placed in the charger and call and message lists are deleted. When it is removed from the charger, the user needs to log on again. NOTE: This feature is license dependent and applicable in IP-DECT systems only. See also 3.2 Log In or Out of a Shared Phone on page 15.
- Change profile - when the handset is placed in the charger it changes profile. When the handset is removed from the charger, the profile is changed back.

17. If the parameter *Possible to switch handset off i*s disabled in PDM/Device Manager, the handset is not switched off in charger.
18. If the parameter *Possible to turn off sound* is set to "No" in PDM/Device Manager, the handset is not muted in charger.
19. If you want to mute all messages (regardless of priority), set the *Show and indicate incoming messages* parameter via PDM/Device Manager.

Press "Edit" and select the wanted profile. By default only the profile *Normal* is visible, but additional profiles is visible if they are configured. See 7.3 Profiles on page 51.

8 Procedure Call

When configuring the functions Call services, In Call menu, Contacts, or a shortcut/service to the *Phone call* function, the data added in these functions is static. When entering the data for the function to be used, it is possible to add a variable/character *U* that allows the user to enter additional numerical characters before calling the number/sending the data to a system.

See the following example for more information.

Example of configuration:

A user wants to create a service with the *Phone call* function. The PBX requires that a prefix must be added to a phone number. In this case, the user can pre-program the prefix and then enter the applicable phone number when using the *Phone call* function.

1 Press "Menu", or the confirmation button.

2 Select "Services".

3 Select "Add new".

4 In the *Name* field, enter "Call no.".

5 Select the function "Phone call".

6 In the *Number* field, enter the prefix to be used followed by the character "U". In this case, the text string is as follows **21*U*. The character *U* represents an *Enter number* dialog where the user can enter the phone number.

7 Press "Save".

When using the function, an *Enter number* dialog appears, see figure below. If the user enters "123" (or selects a contact with this number by pressing) and presses "OK", the number **21*123* is dialed. Note that no call is established before the user presses "OK", that is, post-dial.

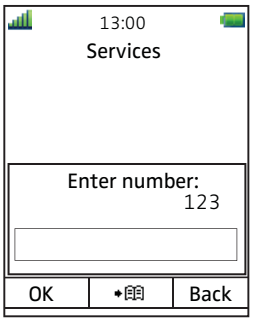


Figure 9. Enter number dialog.

9 System Profiles

A system profile can be used when certain settings in a handset are required and preventing that a user changes these settings. The system profile contains settings such as alarm settings, soft key settings, and presence settings, and can only be configured in PDM or Device Manager, see Configuration Manual, Ascom d81 DECT Handset, TD 92674EN.

When the system profile is activated[20], its settings is not displayed in the handset's menu. It is possible to indicate when a system profile is activated in the handset by showing its profile name in idle mode.

The system profile can be used in combination with the user profile (see 7.3 Profiles on page 51). If there is a conflict between the settings in the system profile and the settings in the user profile, the settings in the system profile is used.

If a user changes a setting in the handset menu that is determined by a system profile, the menu is updated but the setting is not be changed.

Example:

A system profile *System Profile A1* has been activated and is indicated by its name is displayed in idle screen. In this case, the pull-cord alarm and no-movement alarm are activated and is indicated by the corresponding icons in the left lower corner in the idle screen.

A user wants to deactivate the alarms and selects Settings >Alarm>Activate alarm. The check boxes do not indicate that the alarms are activated. The user can mark or unmark the checkboxes without that the alarm settings is changed due to the settings in the system profile supersedes the settings made by the user.

Tip: If this system profile is always to be active, it is recommended to hide the Alarm menu in the handset using PDM/Device Manager.

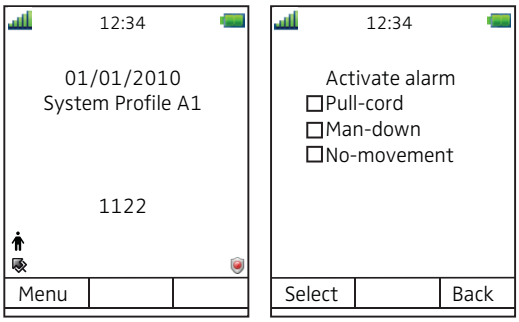


Figure 10. Example showing an activated system profile.

9.1 System Profile Status Indications

The administrator may configure the handset to play a sound if the system profile is activated or deactivated. This provides the user with an audible alert when the system profile changes from inactive to active or vice versa.

The feature can be triggered by several kinds of event, such as moving between different parts of a buildings where a system profile might be appropriate in one location but not required in another.

20.The system profile can only be activated using PDM/Device Manager or remote via an Unite application.

The system profile name is displayed when the handset is in idle mode. The user should be aware that the characteristics and behaviour of the handset change when the system profile changes. For the exact sound and characteristics of the handset associated with the activation and deactivation of a system profile, refer to the system administrator.

10 Advanced Functions

10.1 Admin Menu

The handset has a hidden menu for system administrators. See the handset's Configuration Manual.

The Admin menu contains:

- Software, hardware and license information, IPEI/IPDI, and user ID
- DECT information
- DECT location information[21] and/or LF location information[22]
- Centralized Management showing online information
- Site Survey Tool for indication of radio signal and base station listing
- Fault logging
- License upgrade menu
- Frequency band selection[23]
- System menu with ability to alter protection
- Factory reset option

For quick access to the Device Information (DI) menu in idle mode, press the keys containing *#DI# (that is *#34#). For quick access to IPEI/IPDI, press *#06# in idle mode. See the table below.

Information	Code
Software version	*#34#
Hardware version	*#34#
License	*#34#
IPEI/IPDI	*#34# or *#06#
User ID	*#34#

10.2 Clear Lists in Charger

A parameter can be set using the PDM/Device Manager to clear the messaging and call lists that have been stored in the handset. When the parameter is activated and the function has been downloaded to the handset, the lists are deleted when placed in a charger. This can be useful during administration of handsets for new users. See also the handset's Configuration Manual.

21.This is a license dependent feature.
22.Requires a handset that supports LF location.
23.This option is removed when the frequency band has been set.

11 Enhanced Messaging

11.1 Voice Mail

Note: This feature is only available if configured in the system.

11.1.1 Receive a Voice Mail

When receiving a voice mail, the content of the voice mail notification is displayed automatically on the screen, and is also indicated by the icon n the status bar.

If the content of the notification is displayed, press "Call" to dial the voice mail. If "Close" is selected, it is possible to dial the voice mail by a long press 1 in idle mode, or from the Inbox menu.

Information is stored in the ''Messaging'' inbox until all voice mail messages have been listened to. See 11.1.2 Check the Voice Mail inbox.

11.1.2 Check the Voice Mail inbox

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select ''Inbox''. The voice mail is displayed first in the inbox list.

4 Select the message with the icon in front of the message (a voice mail is always displayed first in the inbox list). Only one voice mail at the time is displayed even if there are more voice mail messages in the message list.

5 Press "View".

6 Press "Call", or .

11.1.3 One Key Voice Mail Access

A long press on 1 in idle mode will call the voice mail. If the extension number is not available, a dialog window "Voice mail number not defined" is displayed.

Some systems require that the mailbox extension number is downloaded to the handset, see the handset's Configuration Manual.

11.2 Receive a Message with Request for Answer

In the status bar, a message with request for answer is indicated the same way as an ordinary message, see 7.4 Messaging on page 53.

In the message list, the message with request for answer is indicated by the icon .

11.2.1 Accept/Reject the message

Press the soft key ''Accept'' or ''Reject''.

When an acknowledged message has been replied to, the icon is shown in the message list. The text ''Accepted'' or ''Rejected'', and time and date is also added in the acknowledged message.

Note: The option ''Delete'' is not available for a message with request for answer. An unacknowledged message can only be deleted from the message list.

11.3 Message Queuing and Message Priority

To notify about new incoming messages, all incoming messages are placed in a message queue. The sorting order for the message queue depends on the system settings. By default the messages are sorted according to message priority, and thereafter according to arrival time.

The messages in the message queue are automatically displayed for 20 seconds until all messages have been displayed. You can extend the time to display a message by pressing any button. You can also close a message to immediately see the next message in the message queue.

The messages that you do not close are put last in the message queue and remain in the message queue until you close them. They are shown as unread in the message list and will not be shown as read until you have closed them.

See Configuration Manual, Ascom d81 DECT Handset, TD 92674EN for more information how to set the parameters.

11.4 Message Priority and Call Priority

The default setting is that the call information dialog is always visible in front of a message on incoming calls. A message with a certain priority can be configured to ensure that it is always displayed without being interrupted by a call. By setting a call priority, the handset compares the call priority with the message priority to determine which information to be displayed, that is, the call information dialog or the message. If the message priority and the call priority are equal, the message is displayed.

See the handset's Configuration Manual for more information how to set the parameters.

11.5 Message Indication Repetition

By default, when a new message is received or displayed, the LED starts flashing green once and the message alert signal sounds. It is possible to configure the handset to repeat the alert signal for an unread message every 7th second as long it is displayed. See the handset's Configuration Manual for message settings.

Priority 1 messages with certain system-defined properties are handled as extra important and therefore will the alert signal be repeated every 10th second in 5 minutes, or until any key is pressed. Note that this is a system/application dependent feature and cannot be configured in the handset.

11.6 Color Messaging

It is possible to send colored messages to handsets. The sender of a message (that is, an application) determines the color of the message. Colored messaging can be useful for categorizing messages. In Figure 10. on page 80, there are two colored messages (a new message, and a read message) in the message inbox (left in the figure). The messages are indicated by a gradient colour bar behind the envelopes. In addition, a gradient color bar is shown below the envelop when reading a colored message (right in the figure).

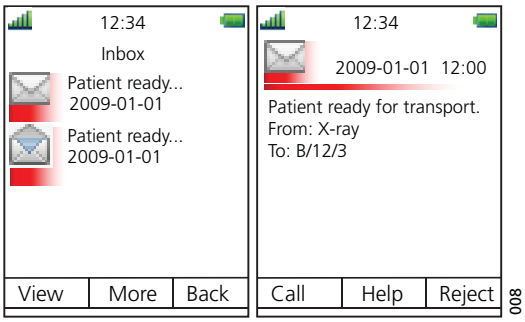


Figure 11. Shows an example of color messages.

11.7 Interactive Messaging

Interactive Messaging (IM) is a function that extends basic messaging. It makes it possible for a user of a handset to access information from a client application in the system.

An example can be a customized application that can be accessed from the handset. A list of actions can be included in the message sent from the application (for example AMS or XGate) to the handset.

By default, an IM is indicated and viewed the same way as an ordinary message, see 7.4 Messaging on page 53. It is saved along with other messages in the message list.

NOTE: The indication of an IM can differ from an ordinary message depending on the settings in the IM. The application that sends the IM can determine the alert signal volume and LED indication.

When an IM has been read, the IM may display several options.

1 Mark an appropriate option

2 Press ''Select''.

3 If the selected option requests input, enter the information needed and press ''Ok''. A press on the middle Soft key will change to digit or text input mode depending on if it is digit or text format in the message.

A read message is indicated the same way as an ordinary message.

NOTE: If a handset receives an IM update when the original message already has been deleted, the handset automatically sends a negative acknowledge (NAK) to the system, if requested.

For an example of an interactive message, see figure 11 on page 81. The options depend on the configuration in the client application.

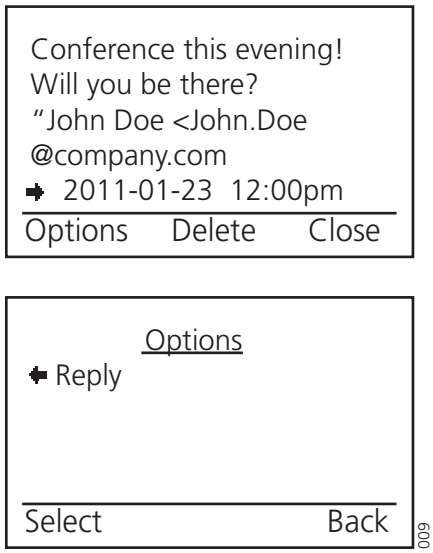


Figure 12. Example of an Interactive Message

Mobile data from the handset can initiate the application to send the interactive message, see 11.10 Mobile Data on page 83. The user can then select one action from the list. The action can be sending a message back to the application and/or dialling a specific number etc.

11.8 Calling while Reading a Text Message

A user can make a call while reading a text message to review and discuss the message with the called party. The called party may be either:

- The message sender, that is, the same party that sent the text message
- A different party.

The user can activate the loudspeaker function during the call to make it easier to read the received text message while talking to the called party.

11.8.1 Calling the Message Sender

To call the message sender while reading and reviewing a received text message, perform the following steps:

1 Receive the text message and call the message sender as described in Call Sender on page 54.

2 Wait for the called party to reply. The message is replaced by the ongoing call details. The user may now:

- Continue with the call without referring back to the received message.
- Redisplay the message and continue the call to further review and discuss the message. See Redisplay the Message and Continue with the Call on page 82.
- Redisplay the message and terminate the call. See Redisplay the Message and Terminate the Call on page 82.

11.8.2 Calling a Different Party

To call another party to read and review a received text message, perform the following steps:

1 Open the message as described in 7.4 Messaging on page 53 and press the "More" soft key.

2 From the pop-up menu, navigate to the "Call" menu item and press the "Select" soft key. The pre-dial screen is displayed. Enter the number of the party to be called or select a number from the handset call list or local or central phone books.

3 Press the "Call" soft key and wait for the called party to reply. The message is replaced by the ongoing call detail. The user may now:

- Continue with the call without referring back to the received message.
- Redisplay the message and continue the call to further review and discuss the message. See Redisplay the Message and Continue with the Call on page 82.
- Redisplay the message and terminate the call. See Redisplay the Message and Terminate the Call on page 82.

Redisplay the Message and Continue with the Call

1 To redisplay the message while the call is ongoing, select the "More" soft key.

2 From the pop-up menu, select "Messaging".

3 From the Messaging menu, select "Inbox". The received message summary is displayed.

4 Press the "View" soft key to display the message in full. If required, use the four-way navigation key to scroll up and down a long text message to reveal the content while reviewing and discussing the message with the called party.

Redisplay the Message and Terminate the Call

1 Press . The call is terminated and the ongoing call summary details are replaced by the redisplayed text message.

11.9 Message Templates

Predefined messages contained in message templates can be used in a number of different situations to quickly construct a message rather than having to construct the message completely from scratch.

Up to five predefined messages can be configured for the handset in the PDM/Device Manager. This lets the user select and send a message appropriate to the current situation, such as "I am in a meeting" or "I am in the operating theatre".

How to use the PDM/Device Manager to create store predefined messages the handset is described in the Message Templates section of the handset configuration manual.

Before a message is sent, the user may edit, add, or remove text from the message. For example, the message "I am in a meeting" could be appended with " - please call back after 1500".

The message template function can be used in the following contexts:

- When a call is received that the user wishes to decline, but still acknowledge with a message, without having to type a completely new message. See 5.6 Declining a Call with a Predefined Message on page 36.

- When a text message is received that the user wishes to answer with a text message without having to type a completely new message. See 11.9.2 Answering a Text Message with a Predefined Message on page 83.
- When the user is writing a message using the handset Messaging function without having to type a completely new message. See 7.4.2 Write New Messages on page 55.

11.9.1 The Templates Menu

To access a template and use it in one of the ways described above, perform the following steps:

1 Open the "Templates" menu as described in the context in which the template is being used.

2 Select the required message from the "Templates" menu.

3 To edit the message, use the handset navigation key to move to different parts of the message, the handset key pad to add additional text, and the "Clear" soft key to delete unwanted text

11.9.2 Answering a Text Message with a Predefined Message

To respond to an incoming text message with a predefined message, perform the following steps:

1 Press the soft key "Reply"

2 Press the "More" soft key. The "Templates" option is displayed.

3 Press the soft key "Select". A list of predefined message templates is displayed.

4 Navigate to the required message template and press the "Select" soft key. If required, edit the message as described in 11.9.1 The Templates Menu on page 83.

5 Press the soft key "Send". The message sender's number is displayed in the handset display.

6 Press the soft key "Send". A "Message sent" confirmation is displayed and the message is sent to the caller.

11.10Mobile Data

11.10.1 Send Mobile Data

Predefined data can be sent from the handset by selecting a Service, see 7.5 Services on page 57. In addition, a shortcut can be created for quick access to a Service, see 7.6 Shortcuts on page 58

Mobile data can be used for opening a door, starting/stopping a machine etc.

11.10.2 Send Mobile Data with a Prefix

Mobile data with a prefix is sent from the handset by pressing a pre-programmed Hot key or Soft key or select a Service. Mobile data with prefix can be used to send information to an application in the system.

The prefix is predefined by the user when programming the Service, see 7.5 Services on page 57.

11.11 Send Data with Bluetooth Barcode Reader

The handset can be configured to receive data from a Bluetooth barcode reader and then send the data to another destination. When the handset receives data, it is automatically transmitted to the destination and is not stored in the handset. A dialog window "Message sent" is displayed.

For more information about configuration, see Configuration Manual, Ascom d81 DECT Handset, TD 92674EN. See also Pair/Connect Bluetooth Barcode Reader on page 69, and user manual for the Bluetooth barcode reader.

12 Operation Notice

12.1 Accessibility and Voice Quality

The base network is not always available. If you do not get in contact with your system, contact your system administrator. For best voice quality, avoid positioning near computer, radio or similar equipment.

Operating Area

You can only use the handset in the area that is covered by your system. Outside this area you will loose contact with the system. The signal strength icon is low and ''Searching'' is displayed.

Out of Range

When you leave the system's coverage area a short beep will sound and the text ''Searching'' will appear in the display.

The out of range beep is repeated every minute for 30 minutes. The sound can be turned off by long pressing, , or .

NOTE: If handset restriction is enabled, it might not be possible to turn the sound off. See the handset's Configuration Manual.

When re-entering the coverage area it can take a couple of minutes before the handset automatically has registered into the system.

13 System Handling

13.1 Software Upgrade and Additional Features

Software and parameters in the handset can be upgraded by using the PDM/Device Manager. Examples of additional features that can be downloaded/configured via PDM/Device Manager:

- Company phonebook
- Downloadable languages
- Customizing the Menu Tree
- Licenses[24]

Refer to the handset's Configuration Manual.

To view the handset's software version, enter *#34# in idle mode.

13.2 Handset Updates via Charging Rack

From time to time, users are instructed to leave their handsets in a central charging rack to allow the handset to be updated with new features and functions. An ongoing update is indicated by in the handset display and an "Updating handset" message is displayed in the active area.

During the update, a message is displayed to indicate that an update is in progress as shown in Figure 13. The "OK" soft key can be selected to close the message.

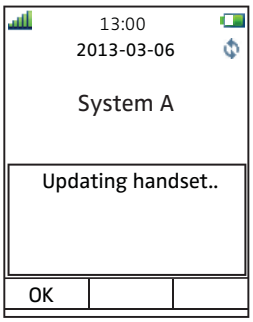


Figure 13. Handset Update while in Charger

If the handset removed from the charger and used, the update is suspended and resumed when it is returned to the charger.

When the update is complete, a "Handset is updated" message is displayed to indicate that the handset is available for use, as shown in Figure 14. Select the "OK" soft key to close the message.

24.The license(s) can also be added via the Admin menu in the handset.

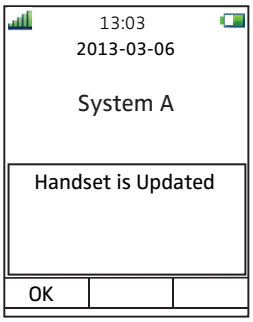


Figure 14. Update Completed while in Charger

14 Maintenance

14.1 Maintenance of Batteries

14.1.1 Battery Warnings

The "Low battery" icon is displayed when the battery has 10% or less remaining capacity left. In addition; a warning signal sounds every minute, the LED flashing orange, and the dialog window "Battery low. Charge now." appears.

The "Empty battery" icon is flashing when the battery has 5% or less remaining capacity left. In addition; a warning signal sounds every second, the LED flashing red, and the dialog window "Battery empty. Shutting down." appears.

During a call, only the corresponding battery warning signal will notify the user. The warning signal cannot be silenced during a call. When not in call, the warning signal can be silenced by pressing # or .

14.1.2 Charge the Battery

Place the handset in the desktop charger or in the rack charger. The battery is being charged when the LED on the handset is steady orange. When the battery is fully charged the LED is green.

An animated battery icon is also shown in the display indicating charging by starting with its current charge and ending with the full charge. A filled battery icon indicates a fully charged battery.

Note: Only use the prescribed chargers for charging.

14.1.3 Charge Spare Batteries

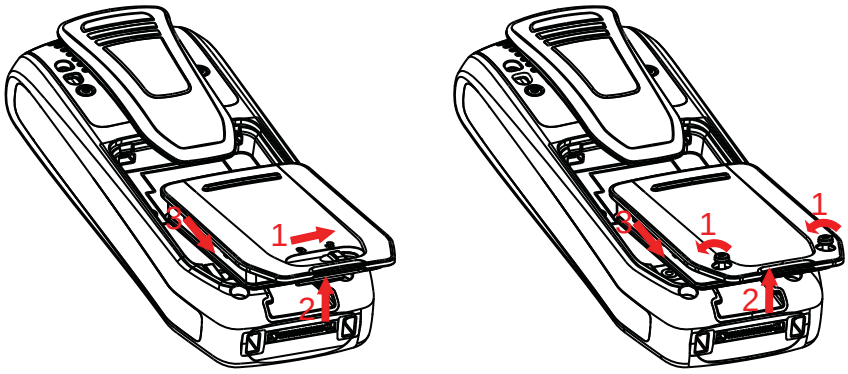
Spare batteries can be charged with a separate battery pack charger. It can charge six batteries at the same time.

IMPORTANT: It is not permitted to charge intrinsically safe batteries using the battery pack charger.

14.1.4 Replace the Battery

If the standby time for the handset becomes too low, the battery should be replaced by a new one. Please contact your system administrator or your supplier, for information about new batteries. Attach the battery as described in figure 15 on page 92. It is attached inside the battery lid and is connected to the handset in such a way that no misalignment of the contact is possible.

NOTE: Use the battery pack opener to untight the screws on the intrinsically safe handset.



Non-Intrinsically handset Intrinsically safe handset

Figure 15. Replaceable battery. Unlock the lid, loosen the screws and remove the battery according to the illustration.

14.2 Easy Replacement of Handset

Easy replacement can be used if a handset needs to be replaced due to, for example, a broken display. The easy replacement procedure is done via the handset display and the DC4 Advanced Desktop Charger, or the CR3 Charging Rack.

The following settings are replaced during easy replacement:

- DECT registration
- User parameters (including User ID)
- Contacts
- The extension number is assigned to the new handset.

The following settings are not replaced during the easy replacement:

- Call list
- Messages
- Bluetooth pairing list
- License(s)[25]

14.2.1 Before Starting Easy Replacement Procedure

1 Check that both the old handset (that is, the handset to be replaced) and the new handset (that is, the replacement handset) are of the same device type (d81).

TIP: Easy Replacement can be performed between different product licenses (that is d81 Messenger and d81 Protector). The new handset's product license is not replaced by the old handset's product license during the procedure.

2 Make sure that the handset batteries are charged before starting the easy replacement procedure.

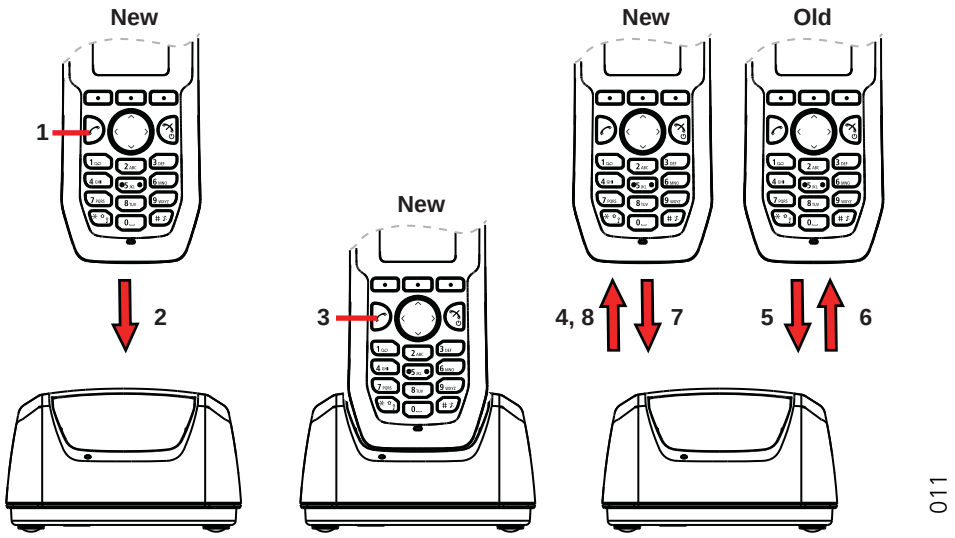
3 Switch off the new handset by long pressing .

25. A handset's product license, for example d81 Protector, and/or license dependent functions can be moved to an unlicensed handset (d81 Messenger) using PDM/Device Manager.

14.2.2 Easy Replacement Procedure

During the Easy Replacement procedure, the LEDs of the handset and the charger follow the same LED indications. This means that if the old handset has a broken display, the LED indications on the charger and on the handset can be used to follow the replacement procedure. Before and after easy replacement, the LEDs may have different LED indications. For more details, see LED Indications during Easy Replacement on page 91.

IMPORTANT: Never remove a handset from the charger until the instructions in the display or the LED tells you to do so (see status on the LED if the display is broken). If there is an error indication it may be allowed to remove the handset, see 15 Troubleshooting on page 94 for further instructions. After the old handset has been in the charger, the new handset needs to be placed in the charger regardless if the replacement was successful or not. Failing to do so may result in malfunction and the new handset will need to be sent for service.



1 On the new handset, press and hold

Note: Do not release until you are instructed to do so.

2 Put the new handset in the charger.

3 When the text "Start phone replacement?" is displayed, release .
Press "Yes" (left soft key).
The text "Follow the instructions. Each step can take several minutes." appears in the display. Press "OK" (left soft key).

4, 5 When the text "Please insert old phone in charger" is displayed, replace the new handset with the old handset. The handset can either be switched on or off.

Note: If the CR3 Charging Rack is used, the left charging slot must be used for both handsets.

The handset is restarted and after a few seconds, the text "Saving settings. Do not remove phone from charger" appears. The charger LED changes to slow orange flashing. It may take several minutes.

IMPORTANT: If the old handset cannot communicate with the charger, put the new handset in the charger to restore its settings (that is, the handset's IPDI). If this step is not performed, the new handset must be sent for service. The old handset's settings might be transfered to the new handset by using PDM/Device Manager. See the handset's Configuration Manual.

6, 7 When the text "Please insert new phone in charger" is displayed, replace the old handset with the new handset. The text "Restoring settings" is displayed.

IMPORTANT: Do not remove the handset while the text "Restoring settings" is displayed

8 When the text "Phone successfully replaced. Please remove phone to restart." appears in the display, remove the handset from the charger. The handset is automatically restarted.

LED Indications during Easy Replacement

The following table shows the LED indications that are used for the handset and the charger during the easy replacement procedure.

LED indication	Description
Orange, flashing (1 000 ms on, 1 000 ms off)	File transfer during Easy Replacement.
Orange, flashing (100 ms on, 800 ms off)	''Change phone'' indication during Easy Replacement.
Red, flashing (100 ms on, 800 ms off)	Error indication during Easy Replacement. Put back new handset in charger.
Red, flashing (900 ms on, 100 ms off)	Error during Easy Replacement. Service needed for both handsets.

14.3 Attach the Hinge-type Clip

Attach the hinge-type belt clip as described in Figure 16.

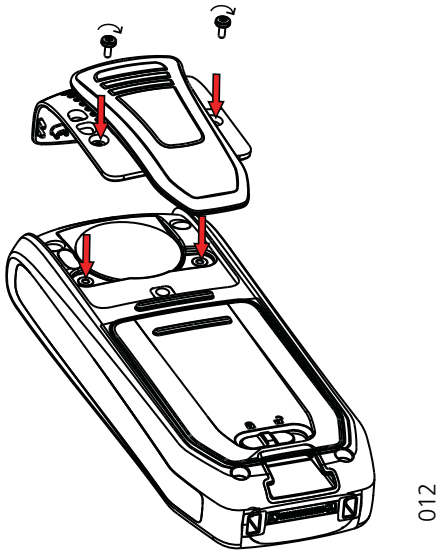


Figure 16. Screw the hinge-type clip into position.

14.4 Attach the Swivel-type Clip

Attach the swivel-type belt clip as described in Figure 16.

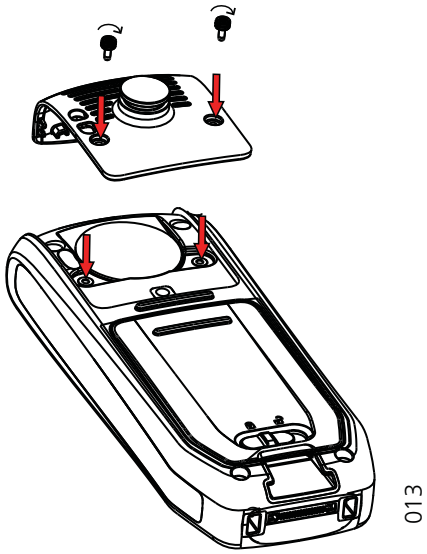


Figure 17. Screw the swivel-type clip into position.

14.5 Attach Cover for No Clip

Attach the enclosed cover as described in Figure 17 when no clip is to be used.

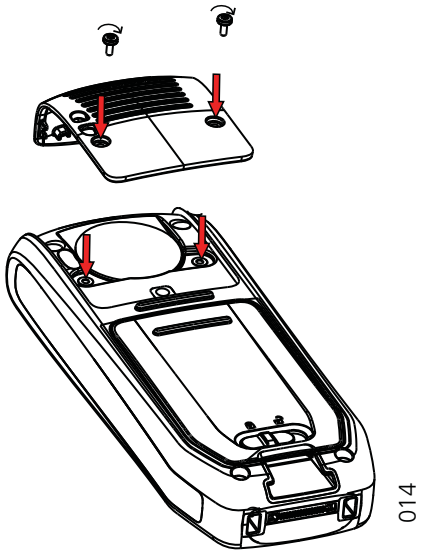


Figure 18. Screw the cover into position.

15 Troubleshooting

This section contains information on how to solve common operational problems, and warnings you may receive.

Go through the following lists if you encounter any problems. If this checklist does not solve the problem, contact your system administrator.

If others have similar problems, there may be a system error.

Operational Problems

Fault	Probable cause	Action or comment
No display	The battery level is low or the handset is defective.	Charge the battery or contact system administrator. Change the screen saver setting as described in Screen Saver on page 64.
No ringing	The sound off icon is on, or ringer volume set to silent, or the handset is defective.	Long press the Sound off key, or increase volume, or contact system administrator.
No change in time & date setting	PBX dependent.	Changes in the handset appear after a maximum of 24 hours after a change in the system or by turning the handset off and on again.
Cannot mute handset by long pressing Sound off key/Mute button. Not possible to set the ring volume to "Silent". Handset, with *In Charger > Other actions > Sound off* enabled, is not muted when placed in charger.	A handset restriction preventing the user to silence the handset.	Enable the parameter *Possible to turn off sound*, see the handset's Configuration Manual.
Cannot switch off handset by long pressing the On-hook key. Handset, with *In Charger > Other actions> Switch off* enabled, is not switched off when placed in charger.	A handset restriction preventing the user to switch off the handset.	Enable the parameter *Possible to switch off handset*, see the handset's Configuration Manual.

Fault	Probable cause	Action or comment
Cannot subscribe handset using Easy Registration feature.	1) The handset does not support the Easy Registration feature. 2) The handset is subscribed to a system. 3) The IP-DECT system (release 3.x.x and lower) does not support Easy Registration. 4) The IP-DECT system (release 4.x and higher) is not configured for Easy Registration. 5) There is ambient equipment disturbing your IP-DECT system.	1) Make sure that the handset's software is of version 3.0.x or higher. In idle more, press "*#34#" and select "Software". 2) Unsubscribe the handset and then subscribe it by following the instructions in Subscribe Handset in IP-DECT System using Easy Registration on page 70. 3) Subscribe the handset manually, see Subscribe Handset in DECT System Manually on page 70. 4) Subscribe the handset manually, see Subscribe Handset in DECT System Manually on page 70, *or* configure the system to support Easy Registration, see the applicable Installation and Operation Manual for your IP-DECT system. 5) Try to subscribe the handset in other area in your building. 6) If the problem still exists, restart your handset and subscribe the handset.

Error or Warning Messages

Display shows	Probable cause	Action or comment
No access	The network is in range, but no access rights.	Switch handset off and then switch it on again or contact system administrator.
No System. The handset beeps once a minute (during max 30 minutes) with a low tone followed by a high tone (if enabled, the vibrator also follows the beeps).	The handset is out of coverage or handset is defective.	Stop the beep with the Sound off key and go into range. Note: When re-entering the coverage area it can take a couple of minutes before the handset automatically has registered into the system. or contact system administrator.
No flash driver was found **Note:** This display message is only shown in English.	Failed to read from flash	Send the handset for service.
SERVICE NEEDED Hardware error **Note:** This display message is only shown in English.	There is a communication problem between components in the handset.	Restart the handset. If the problem persists, send the handset for service.
SERVICE NEEDED Invalid IPDI **Note:** This display message is only shown in English.	Easy replacement procedure not followed correctly or failure during easy replacement procedure.	Send the handset for service.
SERVICE NEEDED Parameters corrupt. **Note:** This display message is only shown in English.	The handset is defective.	Select reset option on the middle soft key if available or if no reset option is available or fault does not resolve the handset needs repair. Note: Display message only shown in English.
Enter PIN code	The handset's lock is activated.	Enter the required PIN code. If PIN code lost enter new via PDM/Device Manager or do a factory reset via PDM/Device Manager.
Battery low, charge now	The battery level is low.	Charge or replace the battery.
Phonebook is not available at the moment.	The phonebook does not respond, not available at the moment.	Try again later or if fault persists do a factory reset via admin menu or PDM/Device Manager.
Voice mail number not defined	There is no Voice mail number defined in the handset.	Define a Voice mail number via PDM/Device Manager.

Could not encrypt connection	The parameter "Encryption Required" is enabled in the handset in combination with; 1) Unencrypted base station(s); and/or, 2) Unsupported base station(s).	1) Disable the "Encryption required" parameter in handset via PDM/Device Manager; and/or, 2) Enable the encryption in the base station(s); and/or, Note: If Ascom's base station(s) is used, the software version must be 3.1.x or greater. 3) Use supported base station(s). Ask your supplier.
Not allowed	1) The handset with the shared phone functionality enabled cannot be logged in due to another handset using the extension (that is, User). **Note:** If a password (that is, AC code) is required to login a handset, it is possible to the login the other handset. The first logged in handset will automatically be logged out. 2) The extension (User) does not exists. 3) The password is not correct.	1) Logout the handset that uses the extension. 2) Make sure that you entered correct extension. If needed, contact the system administrator. 3) Make sure that you have entered correct password. Ask the system administrator if you have forgot the password.

LED Error Indications

See also chapter LED Indications during Easy Replacement on page 91.

LED is flashing red, quick flash, (100 ms on, 800 ms off)

1) If a third handset, that is another handset other than the old replaced handset or new replacement handset, is inserted into the charger during Easy Replacement, this error indication appears. Replace the correct handset.

2) The charger has found that Easy Replacement does not work. Change back to the new handset.

LED is flashing red, long flash (800 ms on, 100 ms off)

Error during Easy Replacement. Both handsets need to be sent for service.

16 Related Documents

Data Sheet, Ascom d81 DECT Handset, Messenger, TD 92643EN

Data Sheet, Ascom d81 DECT Handset, Protector, TD 92711EN

Configuration Manual, Ascom d81 DECT Handset, TD 92674EN

Quick Reference Guide, Ascom d81 DECT Handset, TD 92667EN

Function Description, Product Licensing Overview, TD 92677GB

Installation and Operation Manual,
Portable Device Manager (PDM), Windows Version, TD 92325EN

Installation and Operation Manual, IMS, TD 92762EN

Installation and Operation Manual, DC4 Desktop Charger, TD 92481EN

Installation and Operation Manual, CR3 Charging Rack, TD 92480EN

Installation Guide 9dLD Location Device, TD 92175GB

Installation and Operation Manual, IP-DECT Base Station and IP-DECT Gateway, TD 92579EN

User Guide, Site Survey Tool, TD 92220GB

17 Document History

For details in the latest version, see change bars in the document.

Version	Date	Description
A	19 march 2010	First released version
B	20 December 2010	See change bars in the document.
C	26 September 2011	"Redirect" option removed from In Charger menu. See change bars in the document
D	08 June 2012	Updated: Chapter 2 Descriptions on page 5: new power supplies added. Invitation Received as Message during an Ongoing Call: Note added. Added: 5.3.13 Switch between Calls on page 34 Appendix C: Display Call Information from Cisco Systems on page 113
E	12 December 2012	Removed: Removed Safety Instructions chapter. Removed document numbers from document references. Updated: 1.5 Functions and Accessories on page 3: Enhanced DECT Security added. 2.1.3 Icons and Text in the Display on page 9: New Volume 0 icon, distinct from mute. 3.1 Switch the Handset On/Off on page 15: Owner ID shown when a switched off handset is put in charger. 4.9 In Call Menu on page 27: messaging option added. 5.3.12 Send Call Waiting on page 34: changed heading to distinguish from Answer Call Waiting 7.1.2 Missed Calls on page 43: note regarding the possibility to turn off call list added. 7.2 Contacts on page 48, 7.2.6 Central Phonebook on page 50 and 7.4.2 Write New Messages on page 55: possible to temporarily change input language. 7.4 Messaging on page 53: Oldest message after inbox has 30 messages gets replaced by the new message. 7.7.4 Display Settings on page 64: Display owner ID and handset variant when in CR3 charging rack. Added: 3.6 Mute Handset on Incoming Call or Message on page 17 5.3.3 Open Messaging during a Call on page 32. 5.3.14 Answer Call Waiting on page 34 7.2.4 Set Ring Signal for a Contact on page 50 3.6 Mute Handset on Incoming Call or Message on page 17

Version	Date	Description
F	28 March 2013	Added 11.8 Calling while Reading a Text Message on page 81 Modified 5.1.1 Answer a Call on page 29 to include reference to declining a call with template. Added 5.6 Declining a Call with a Predefined Message on page 36. Added 11.9 Message Templates on page 82, 11.9.1 The Templates Menu on page 83and 11.9.2 Answering a Text Message with a Predefined Message on page 83. Added 7.4.5 Review Inbox Content while Reading a Message. The section 7.4 Messaging has been updated with info about unlocking the phone to access messages received. The section 7.7.2 Keypad Lock Settings has been updated to reflect the option of different key locking choices and intervals Update 5.4 Loudspeaking Function on page 35 to reflect position of picture soft key. (Issue DX-5097) The sections 13.2 Handset Updates via Charging Rack on page 86 has been added. How the handset updates the DECT system time is described in 7.7.5 Time and Date Settings on page 65. The section Menu Icons updated with correct default profile. Updated content of 5.1.1 Answer a Call on page 29 to more accurately reflect handset behaviour. The section 7.7.3 Phone Lock Settings on page 62 has been added to separate out phone lock and key lock concepts and make minor corrections to parameter names The sections 3.2 Log In or Out of a Shared Phone on page 15 and 3.5 Lock and Unlock the Handset on page 17 have been updated to describe the effect of a user logging off a shared phone.

Version	Date	Description
G	31 October 2013	"On except calls" option is added to 7.7.2 Keypad Lock Settings on page 61 The following sections have been updated to reflect the five emergency number availability: 5.7 Emergency Calls on page 36 7.7.2 Keypad Lock Settings on page 61 7.7.3 Phone Lock Settings on page 62 Updated section Screen Saver on page 64 and 15 Troubleshooting on page 94 to describe "Black also in call" screen saver option. Audio indication of change in system profile added in section 9.1 System Profile Status Indications on page 75. Updated section 5.2.1 Pre-Dial on page 29 to accommodate international dialling. Improved introduction to In Call section 4.9 In Call Menu on page 27.

Appendix A: Bluetooth Headset

A.1 Introduction

Bluetooth technology replaces the cord between the handset and the headset. This allows the user to move more freely and eliminates the risk of a headset cord getting stuck.

Bluetooth supported functions:

- Pair the handset with it's headset
- Chose which device to use when making a call
- Play ring signal in the Bluetooth headset
- Answer and connect sound to the Bluetooth headset when answering with the headset's button.
- End call with the Bluetooth headset's button
- Transfer audio to/from Bluetooth headset during call, using the menu in the handset.
- Increase/decrease the volume in the Bluetooth headset with the volume buttons on the handset.
- Additional functions can be configured for the headset button, such as post-dial, dial last called number, or dial a predefined number. See the handset's Configuration Manual for more information.

A.2 Icon

See 2.1.3 Icons and Text in the Display on page 9.

A.3 Wear

For optimal performance wear the Bluetooth headset and the handset on the same side of your body. The best audio quality in the headset is achieved when no obstructions, including your body, are between the headset and the handset.

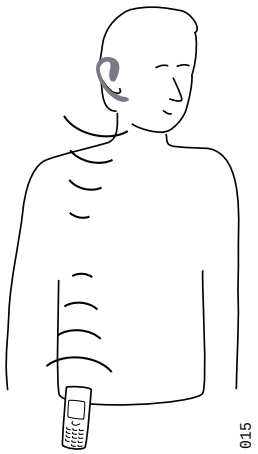


Figure 19. Wear the headset and the handset on the same side of your body.

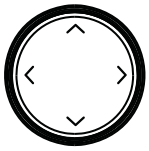
A.4 Headsets

A number of Bluetooth headsets for different work situations have been tested together with the handset. Refer to the Ascom Wireless Extranet Website for a list of verified Bluetooth headsets.

Since the Bluetooth supports the Bluetooth 2.0 standard, other headsets may also work although not verified by Ascom.

Note: Your Bluetooth headset may have more or less functions than described here, refer to the Manual for the Bluetooth headset.

A.5 Operation



Step between the menus with the navigation key. Confirm each menu selection by pressing the Soft key "Select".

A.5.1 Enable Bluetooth

To enable the Bluetooth function enter in the handset menu, select "Bluetooth" and select ''Enable''.

Note: When enabling Bluetooth on an intrinsically safe handset, it is restarted.

A.5.2 Pair and Connect a Bluetooth Headset

Before a headset can be used, a connection (pairing) between the headset and the handset must be established.

1 Place the Bluetooth headset and the handset next to each other.

2 Enable Bluetooth, see A.5.1 Enable Bluetooth.

3 Put the Bluetooth headset in pairing mode, see the user manual for the Bluetooth headset.

4 Enter the menu by pressing "Menu".

5 Select in the menu.

6 Select "Bluetooth".

7 Select "Headset".

8 Select "Add new". An information text "Put headset in Pairing mode" is displayed.

9 Press "OK". It will now search for a Bluetooth headset for connection.

10 When headset is found, press "Pair".

11 If needed, enter PIN code, see user manual for the Bluetooth headset. Press "OK".

The dialog *Successful pairing* appears if the pairing process was successful. The Bluetooth headset will also be connected indicated by the icon ■ in front of the headset.

TIP: The headset button can be configured with a specific function, such as post-dial, dial last called number, or dial a predefined number. See the handset's Configuration Manual for more information.

A.5.3 Add another Bluetooth Headset

Up to eight Bluetooth devices can be paired to the handset, but only one at a time can be selected. To pair another headset repeat section ''Pair and Connect a headset'' steps 1-6.

The paired headsets are displayed by a default name in the handset menu ''Headset''. See A.5.6 Change the name of Bluetooth headset

A.5.4 Select a Bluetooth Headset

To activate a Bluetooth headset, enter in the handset menu, select ''Bluetooth'' > ''Headset''. Step with the navigation key, ⌄ and ⌃ to the headset to be selected and press "Select". *Connection successful* is displayed. The headset is now selected.

When a new headset has been selected any previous headset will automatically become disconnected.

A.5.5 Remove a Bluetooth Headset

To remove a Bluetooth headset, enter in the handset menu, select Bluetooth > Headset. Step with the navigation key, ⌄ and ⌃ to the headset to be removed and press "More". Select "Delete". Confirm with "Select".

A.5.6 Change the name of Bluetooth headset

The name, in the headset list, of the headset is the default name for the headset.

To change the name enter in the menu, select ''Bluetooth'' > ''Headset''. Step with the navigation key, ⌄ and ⌃, to select the headset. Select "More" > ''Edit name''. See 2.1.2 Alphanumeric Keys on page 8.

A.6 Calling

A.6.1 Make a Call

Dial the number on the handset and press "Call", or . When ''Transfer call to phone?'' is displayed press "No" or ignore the message to use the Bluetooth Headset. Press "Yes" to use the handset.

A.6.2 Answer a Call

A ring signal sounds in both the selected Bluetooth headset and the handset to signal an incoming call.

To answer the call in the Bluetooth headset, press the button[26] on the headset.

To answer the call in the handset, press on the handset.

A.6.3 End a Call

To end the call press the button[17] on the headset, or on the handset.

26. For instruction, see headset manual.

A.7 Volume/Mute Control

A.7.1 Adjust the Volume During a Call

Depending on the Bluetooth headset it may be possible to adjust the volume on the headset[17]. On the handset, press ^ to increase the volume and v to decrease the volume in the headset.

A.7.2 Turn the Microphone On/Off During a Call

Mute both headset and handset by pressing #♪ or ▢ on the handset.

A.8 Messaging

When a text message is received during an ongoing call, a beep sounds in the Bluetooth headset.

A.9 Transfer a call

A.9.1 Transfer a Call to the Handset

To transfer a call to the handset from the Bluetooth headset, press "More" on the handset during the call, and select ''Audio transfer''.

If supported by the headset, a call can be transferred to the handset with by pressing the headset button.

A.9.2 Transfer a Call to the Bluetooth Headset

To transfer the call to the Bluetooth headset, press "More" on the handset during the call, and select ''Audio transfer''.

A call can be transferred to the Bluetooth headset by pressing the button on the Bluetooth headset. For additional information, see the headset manual.

A.10 Switch to a Headset with Cord

If a headset with a cord is connected during a call, the call is transferred to this headset automatically.

A.11 Menu Tree

See 7.7 Settings on page 60.

A.12 Operation Notice

A.12.1 Accessibility and Voice quality

Bluetooth uses the frequency of 2.45 GHz. WLAN, microwave ovens, and other devices that use the same frequency can disturb the use of a Bluetooth headset.

A.12.2 Operation Area

Maximum distance between the headset and the handset is 10 metres. The communication distance between the handset and headset may vary considerably due to the environment and disturbances from other 2.45 GHz equipment. Different headsets can also give different communication distances.

A.12.3 Out of Range

If a connection cannot be made with the selected Bluetooth headset, the call is transferred automatically to the handset.

If the Bluetooth headset and the handset get out of range from each other, the connection is temporarily lost. Since the last connected headset is always considered "selected", the connection is automatically established again when a call is made or received. In case of more than one paired headset in list, the preferred headset used for calls, is always first in list.

A.13 Environmental Requirements

A.13.1 Bluetooth Headset Battery

See the manual for the Bluetooth headset.

A.14 Trouble Shooting

Problem	Reason	Solution
No headset found	Headset is turned off	Turn on headset
	Headset is out of battery	Charge headset
	Headset is out of range	Move headset closer to handset < 10 metre.
	Headset is not in pairing mode	Turn headset into pairing mode (see headset manual for details)
Pairing fails	Headset is not in pairing mode	Turn headset into pairing/ discoverable mode (see headset manual for details)
	Incorrect PIN entered	Try again and enter correct PIN (see headset manual for details)
Connecting fails/Failed to connect headset	Headset is not turned on	Turn on headset
	Headset is out of range	Move headset closer to handset
	Link key in headset has been deleted	Repeat pairing procedure
	Headset is already connected to another handset	Disconnect headset from the other handset
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.
Headset can not connect to handset (see headset manual for details on how to connect)	Handset is not turned on	Turn on handset
	Handset is out of range	Move handset closer to headset
	Bluetooth module is disabled	Enable "Bluetooth" in Bluetooth menu
	Another headset is already connected to the handset	Disconnect the connected headset
	Link key is missing in either headset or handset.	Repeat pairing procedure
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.

Appendix B: Bluetooth Barcode Reader

B.1 Introduction

Note: The Bluetooth barcode reader requires that the license dependent Bluetooth Data Profile feature is enabled. See the handset's Configuration Manual.

Bluetooth supported functions:

- Pair the handset with it's Bluetooth barcode reader
- Choose which device to use when scanning barcodes
- Scan barcode(s) and send the information to a handset/system.

B.2 Icon

See 2.1.3 Icons and Text in the Display on page 9.

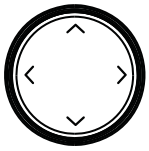
B.3 Bluetooth Barcode Readers

A number of Bluetooth barcode readers for different work situations have been tested together with the handset. Refer to the Ascom Wireless Extranet Website for a list of verified Bluetooth barcode readers.

Since the Bluetooth supports the Bluetooth 2.0 standard, other Bluetooth barcode reader may also work although not verified by Ascom.

Note: The Bluetooth barcode reader may have more or less functions than described here, refer to the Manual for the Bluetooth barcode reader.

B.4 Operation



Step between the menus with the navigation key. Confirm each menu selection by pressing the soft key "Select".

B.4.1 Enable Bluetooth

To enable the Bluetooth function enter in the handset menu, select Bluetooth and select ''Enable''.

B.4.2 Pair and Connect a Bluetooth Barcode Reader

Before a Bluetooth barcode reader can be used, a connection (pairing) between the Bluetooth barcode reader and the handset must be established.

1 Place the Bluetooth barcode reader and the handset next to each other.

2 On the handset, enter in the menu, select ''Bluetooth'' > ''Barcode reader'' > ''Add new''.

3 Put the Bluetooth barcode reader in pairing mode[27] and press the soft key "OK". The handset starts to search for the Bluetooth barcode reader.

27.For instruction, see barcode reader manual.

4 When the Bluetooth barcode reader is found it is displayed in the *Barcode reader found* list. Press the soft key "Select" on the handset to select the Bluetooth barcode reader. The pairing starts.

5 A PIN-code is requested for the Bluetooth barcode reader. Enter the PIN-code[1] and press "Select" on the handset. *Pairing successful* is displayed.

6 The paired Bluetooth barcode reader is displayed in the handset menu ''Barcode reader''.

B.4.3 Add another Bluetooth Barcode Readers

Up to eight Bluetooth devices can be paired to the handset, but only one at a time can be selected.

To pair another Bluetooth barcode reader, repeat section B.4.2 Pair and Connect a Bluetooth Barcode Reader on page 109.

The paired Bluetooth barcode readers are displayed by a default name in the handset menu *Barcode reader*. See B.4.6 Change the name of Bluetooth Barcode Reader.

B.4.4 Select a Bluetooth Barcode Reader

To activate a Bluetooth barcode reader, enter in the handset menu, select Bluetooth > Barcode reader. Step with the navigation key, ⌄ and ⌃ to the barcode reader to be selected and press the soft key "Select". "Connection successful" is displayed. The barcode reader is now selected.

When a new barcode reader has been selected, any previous barcode reader will automatically become disconnected.

B.4.5 Remove a Bluetooth Barcode Reader

To remove a Bluetooth barcode reader, enter in the handset menu, select "Bluetooth" > "Barcode reader". Step with the navigation key, ⌄ and ⌃ to the barcode reader to be removed and press the soft key "More". Select "Delete". Confirm with the soft key "Yes".

B.4.6 Change the name of Bluetooth Barcode Reader

In the barcode reader list, the name of the barcode reader is the default name for the barcode reader.

To change the name, enter in the menu, select ''Bluetooth'' > ''Barcode reader''. Step with the navigation key, ⌄ and ⌃, select the barcode reader. Select More > Edit name. See 2.1.2 Alphanumeric Keys on page 8.

B.5 Barcode Reader Operation

B.5.1 Using the Bluetooth Barcode Reader

The procedure on how to use the Bluetooth barcode reader may vary depending on which type/model that is used. Refer to the manual for the Bluetooth barcode reader. The following instruction can be used as a guideline.

1 Press the button[28] of the barcode reader to scan a barcode. The barcode reader may give a beep to confirm that the barcode has been read and sends the information the handset.

28.For intruction, see barcode reader manual.

2 When the information is received, the handset sends it immediately to a predefined destination. A *Message sent* dialog window appears in the handset, and the barcode reader gives a beep to confirm that the message has been sent.

Note: Only scan one barcode at the time and wait for the message sent acknowledgement from the handset/barcode reader before scanning a new barcode.

B.6 Menu Tree

See 4.8 Settings on page 25.

B.7 Operation Notice

B.7.1 Accessibility and Voice quality

Bluetooth uses the frequency of 2.45 GHz. WLAN, microwave oven, and other devices that use the same frequency can disturb the use of a Bluetooth barcode reader.

B.7.2 Operation Area

Maximum distance between the barcode reader and the handset is 10 metres. The communication distance between the handset and barcode reader may vary considerably due to the environment and disturbances from other 2.45 GHz equipment. Different barcode readers can also give different communication distances.

B.7.3 Out of Range

If the Bluetooth barcode reader and the handset get out of range from each other the connection is lost. The barcode reader must manually be connected again, see B.4.4 Select a Bluetooth Barcode Reader on page 110.

B.8 Environmental Requirements

B.8.1 Bluetooth Barcode Reader Battery

See the manual for the Bluetooth barcode reader.

B.9 Troubleshooting

Problem	Reason	Solution
No barcode reader found	Barcode reader is turned off	Turn on barcode reader[1]
	Barcode reader is out of battery	Charge barcode reader[1]
	Barcode reader is out of range	Move barcode reader closer to handset < 10 metre.
	Barcode reader is not in pairing mode	Turn barcode reader into pairing mode[1]
Pairing fails	Barcode reader is not in pairing mode	Turn barcode reader into pairing/ discoverable mode[1]
	Incorrect PIN entered	Try again and enter correct PIN[1]
Connecting fails/Failed to connect barcode reader	Barcode reader is not turned on	Turn on barcode reader[1]
	Barcode reader is out of range	Move barcode reader closer to handset
	Link key in barcode reader has been deleted	Repeat pairing procedure[1]
	Barcode reader is already connected to another handset	Disconnect barcode reader from the other handset
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.
Barcode reader can not connect to handset (see barcode reader manual for details on how to connect)	Handset is not turned on	Turn on handset
	Bluetooth module is disabled	Enable Bluetooth in Bluetooth menu
	Another barcode reader is already connected to the handset	Disconnect the connected barcode reader
	Link key is missing in either barcode reader or handset.	Repeat pairing procedure[1]
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.
Other faults/or if the solutions do not work.		1) Switch the handset and barcode reader[1] on/off. 2) Perform a factory reset on the barcode reader[1].

1. Refer to the Manual for the Bluetooth barcode reader

Appendix C: Display Call Information from Cisco Systems

NOTE: This feature requires Ascom IP-DECT 5.1.2 or later.

The handset can display call information received from a Cisco system. The call information to be displayed is system dependent and is indicated by a dialog window and a short beep in the handset. The handset can show information about the following features:

- Music on Hold - displayed in the calling party's handset when he/she is put on hold.
- Ad-Hoc conferencing
- Call back - displayed when the Call back feature has been activated to call back to a busy handset when it is free.
- Call pickup - displayed when you can answer a call that is ringing at another handset in your Pickup Group.
- Abbreviated dialing

The user can then either close the dialog window manually by pressing "Close" or wait until the dialog window closes automatically after few seconds. The call information will not be stored in the handset.

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